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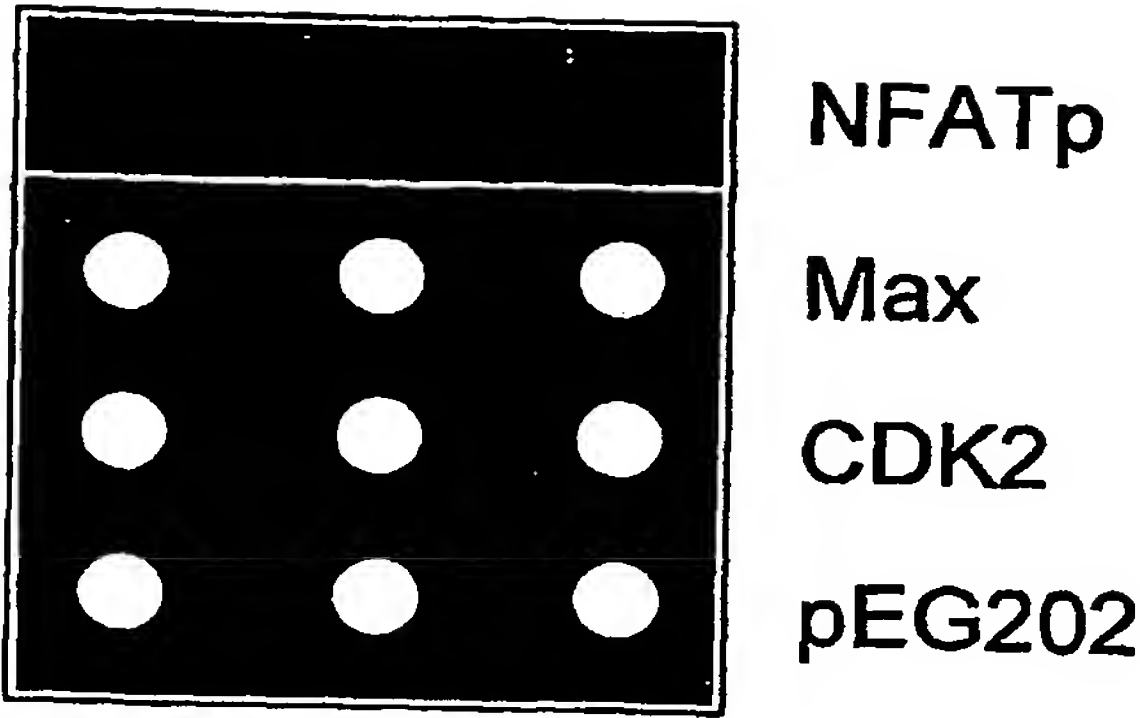


Fig. 1

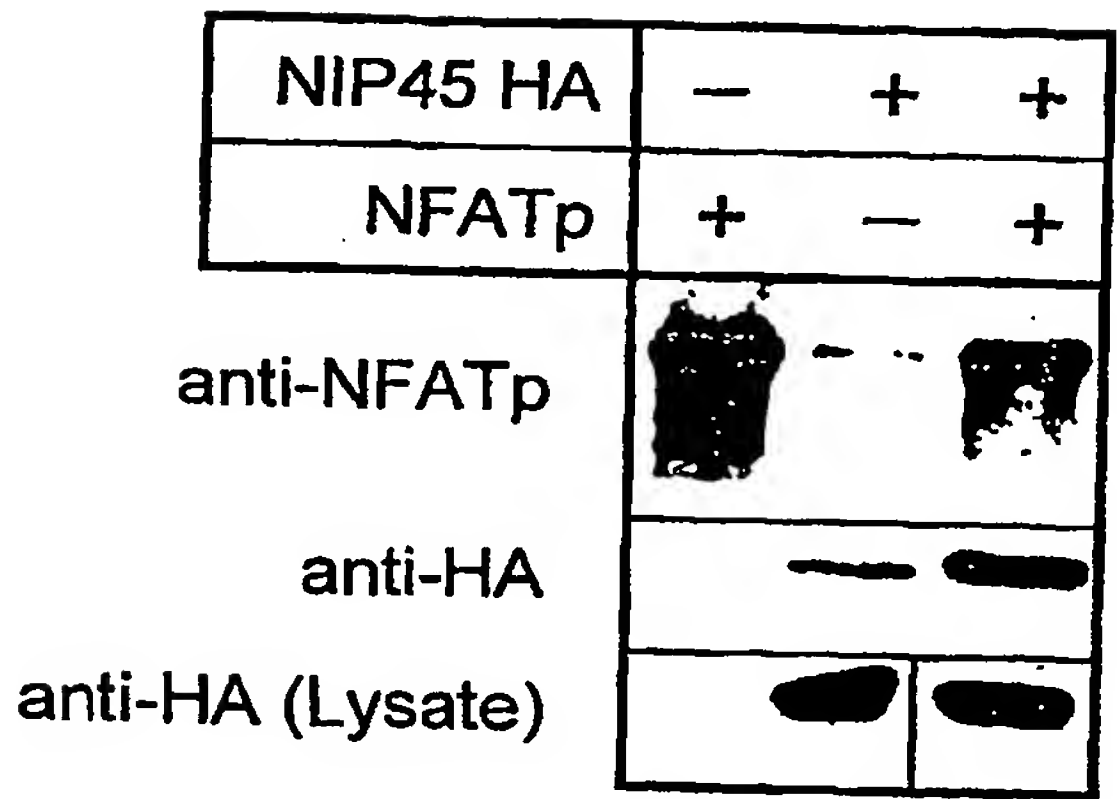


Fig. 2

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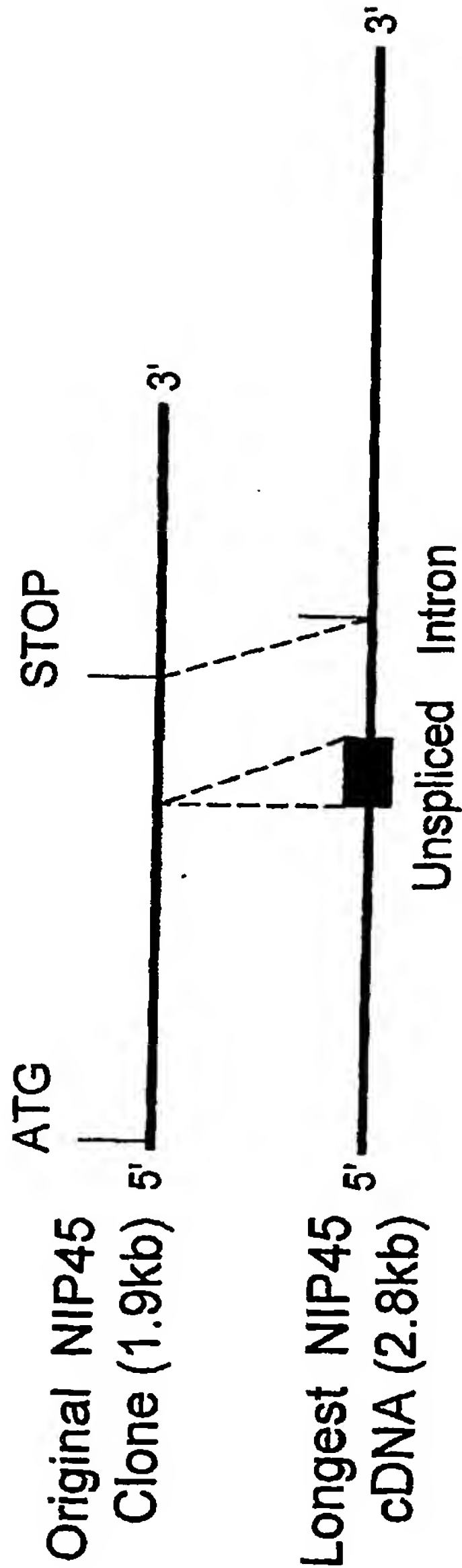


Fig. 3

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ACAGTGTGGGAGATGGCGGAACCACTGAGGGGACGTGGTCCGAGGTCC	48
TGTCACACCCTCTACCGCCTTGGTGACTCCCCTGCACCAGGCTCCAGG	
<u>M A E P L R G R G P R S</u>	12
CGCGGTGGCCGAGGCGCTCGGAGAGCCCGAGGCGCCCGTGGCCGGTGT	96
GCGCCACCGGCTCCGCGAGCCTCTCGGGCTCCGCGGGGCACCGGCCACA	
<u>R G G R G A R R A R G A R G R C</u>	28
CCTCGCGCCCGGCAGTCTCCGGCTAGGCTCATTCCAGACACCGTGCTT	144
GGAGCGCGGGCCGTCAGAGGCCGATCCGAGTAAGGTCTGTGGCACGAA	
<u>P R A R Q S P A R L I P D T V L</u>	44
GTGGACTTGGTCAGTGACAGCGACGAAGAGGTCTTGGAAGTCGCAGAC	192
CACCTGAACCAGTCACTGTCGCTGCTTCTCCAGAACCTTCAGCGTCTG	
<u>V D L V S D S D E E V L E V A D</u>	60
CCAGTAGAGGTGCCGGTCGCCCCGCCTCCCCGCGCCGGCTAAACCTGAG	240
GGTCATCTCCACGGCCAGCGGGCGGAGGGGCGCGGCCGATTTGGACTC	
<u>P V E V P V A R L P A P A K P E</u>	76
CAGGACAGCGACAGTGACAGTGAAGGGGCGGCCGAGGGGGCCTGCGGGA	288
GTCCTGTCGCTGTCACTGTCACTTCCCCGCCGGCTCCCCGGACGCCCT	
<u>Q D S D S D S E G A A E G P A G</u>	92
GCCCCGCGTACATTGGTGCGACGGCGGGCGGGCGGGCTGCTGGATCCC	336
CGGGGCGCATGTAACCACGCTGCCGCCGCCGCCGCCGACGACCTAGGG	
<u>A P R T L V R R R R R R L L D P</u>	108
GGAGAGGCGCCGGTGGTCCCAGTGTACTCCGGGAAGGTACAGAGCAGC	384
CCTCTCCGCGGCCACCAGGGTCACATGAGGCCCTTCCATGTCTCGTCG	
<u>G E A P V V P V Y S G K V Q S S</u>	124
CTCAACCTCATTCCAGATAATTCATCCCTCTTGAAACTGTGCCCTTCA	432
GAGTTGGAGTAAGGTCTATTAAGTAGGGAGAACTTTGACACGGGAAGT	
<u>L N L I P D N S S L L K L C P S</u>	140
GAGCCTGAAGATGAGGCAGATCTGACAAATTCTGGCAGTTCTCCCTCT	480
CTCGGACTTCTACTCCGTCTAGACTGTTTAAGACCGTCAAGAGGGAGA	
<u>E P E D E A D L T N S G S S P S</u>	156

Fig. 4A

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GAGGATGATGCCCTGCCTTCAGGTTCTCCCTGGAGAAAGAAGCTCAGA	528
CTCCTACTACGGGACGGAAGTCCAAGAGGGACCTCTTTCTTCGAGTCT	
E D D A L P S G S P W R K K L R	172
AAGAAGTGTGAGAAAGAAGAAAAGAAAATGGAAGAGTTTCCGGACCAG	576
TTCTTCACACTCTTTCTTCTTTTCTTTTACCTTCTCAAAGGCCTGGTC	
K K C E K E E K K M E E F P D Q	188
GACATCTCTCCTTTGCCCCAACCTTCGTCAAGGAACAAAAGCAGAAAG	624
CTGTAGAGAGGAAACGGGGTGTGGAAGCAGTTCCTTGTTTTTCGTCTTTC	
D I S P L P Q P S S R N K S R K	204
CATACGGAGGCGCTCCAGAAGCTAAGGGAAGTGAACAAGCGTCTCCAA	672
GTATGCCTCCGCGAGGTCTTCGATTCCCTTCACTTGTTTCGCAGAGGTT	
H T E A L Q K L R E V N K R L Q	220
GATCTCCGCTCCTGCCTGAGCCCCAAGCAGCACCAGAGTCCAGCCCTT	720
CTAGAGGCGAGGACGGACTCGGGGTTCGTTCGTGGTCTCAGGTCGGGAA	
D L R S C L S P K Q H Q S P A L	236
CAGAGCACAGATGATGAGGTGGTCCTAGTGGAAGGGCCTGTCTTGCCA	768
GTCTCGTGTCTACTACTCCACCAGGATCACCTTCCCGGACAGAACGGT	
Q S T D D E V V L V E G P V L P	252
CAGAGCTCTCGACTCTTTTACACTCAAGATCCGGTGCCGGGGCTGACCTA	816
GTCTCGAGAGCTGAGAAATGTGAGTTCTAGGCCACGGCCCCGACTGGAT	
Q S S R L F T L K I R C R A D L	268
GTGAGACTGCCTGTCAGGATGTCGGAGCCCCTTCAGAATGTGGTGGAT	864
CACTCTGACGGACAGTCCTACAGCCTCGGGGAAGTCTTACACCACCTA	
V R L P V R M S E P L Q N V V D	284
CACATGGCCAATCATCTTGGGGTGTCTCCAAACAGGATTCTTTTGCTT	912
GTGTACCGGTTAGTAGAACCCACAGAGGTTTGTCTAAGAAAACGAA	
H M A N H L G V S P N R I L L L	316
TTTGGAGAGAGTGAAGTGTCTCCTACTGCCACCCCTAGTACCCTAAAG	960
AAACCTCTCTCACTTGACAGAGGATGACGGTGGGGATCATGGGATTTC	
F G E S E L S P T A T P S T L K	316

Fig. 4B

SUBSTITUTE SHEET (RULE 26)

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CTTGGAGTGGCTGACATCATTGATTGTGTGGTGCTAGCAAGCTCTTCA	1008
GAACCTCACCGACTGTAGTAACTAACACACCACGATCGTTCGAGAAGT	
L G V A D I I D C V V L A S S S	332
GAGGCCACAGAGACATCCCAGGAGCTCCGGCTCCGGGTGCAGGGGAAG	1056
CTCCGGTGTCTCTGTAGGGTCCTCGAGGCCGAGGCCACGTCCCCTTC	
E A T E T S Q E L R L R V Q G K	348
GAGAAACACCAGATGTTGGAGATCTCACTGTCTCCTGATTCTCCTCTT	1104
CTCTTTGTGGTCTACAACCTCTAGAGTGACAGAGGACTAAGAGGAGAA	
E K H Q M L E I S L S P D S P L	364
AAGGTTCTCATGTCACACTATGAGGAAGCCATGGGACTCTCTGGACAC	1152
TTCCAAGAGTACAGTGTGATACTCCTTCGGTACCCTGAGAGACCTGTG	
K V L M S H Y E E A M G L S G H	380
AAGCTCTCCTTCTTCTTTGATGGGACAAAGCTTTCAGGCAAGGAGCTG	1200
TTCGAGAGGAAGAAGAACTACCCTGTTTCGAAAGTCCGTTCTCTCGAC	
K L S F F F D G T K L S G K E L	396
CCAGCTGATCTGGGCCTGGAATCCGGAGATCTCATCGAAGTCTGGGGC	1248
GGTCGACTAGACCCGGACCTTAGGCCTCTAGAGTAGCTTCAGACCCCG	
P A D L G L E S G D L I E V W G	412
TGAAGCTCTCACCCTGTTCGGACGCAAAGCCAAGACATGGAGACAATA	1296
ACTTCGAGAGTGGGACAAGCCTGCGTTTCGGTCTGTACCTCTGTTAT	
GCTCCCAATTTTATTATTGTGATTTTTCGCCCCATAAGGGCTAACAGA	1344
CGAGGGTTAAAATAATAACACTAAAAAGCGGGGTATTCCCGATTGTCT	
AACTGAATTAGAACTTGTTTACTTATTTATTTCTGGTGCTGGGGATTG	1392
TTGACTTAATCTTGAACAAATGAATAAATAAAGACCACGACCCCTAAC	
AACCCAGACTATGCACATGCTAAGGATGTATGAAGTGGAGGCAAAAC	1440
TTGGGGTCTGATACGTGTACGATTCCTACATACTTCACCTCCGTTTGT	
CAAGGCATTACCTTTAGCCAGCCTCTAGTAGACTGTAGTGTCAAGCAA	1488
GTTCCGTAATGGAAATCGGTCGGAGATCATCTGACATCACAGTTCGTT	

Fig. 4C

SUBSTITUTE SHEET (RULE 26)

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GTGGCTACTTGGTAGTTGTGTGGCTCTGTGTATGTTTGTGCTGTATTT CACCGATGAACCATCAACACACCGAGACACATACAAACACGACATAAA	1536
GGCAGCCCCCTGGGGCACATAGAAGGGACCTTGGCTTCCCTACCATTTC CCGTCGGGGACCCCGTGTATCTTCCCTGGAACCGAAGGGATGGTAAAG	1584
ACGTTGCTGGTGCCCTTTCCTTCATCAGATGACTTCTGTGAAGCTGC TGCAAGCGACCACGGGAAAGGAAGTAGTCTACTGAAGACACTTCGACG	1632
CTATGTTGAGTGTGTTGAACTAAATGAGCTCTGCTTTGGGTGTCCAGG GATACAACCTCACACAACCTTGATTACTCGAGACGAAACCCACAGGTCC	1680
CCTGGGGTTTGTGCCGCAGTTGGAGCCAGCAGTGACTTCACTCTGACT GGACCCCAAACACGGCGTCAACCTCGGTCGTCACTGAAGTGAGACTGA	1728
TGGGACTGAGAATGCATTTTCCTGGTGGAGACACTCGGGTGCAGAAATA ACCCTGACTCTTACGTAAAGGACCACCTCTGTGAGCCACGTCTTTAT	1776
TAACAGAAGGTGACATACATGCTGAAGCTGAGGACTAGGTCGAAAGTT ATTGTCTTCCACTGTATGTACGACTTCGACTCCTGATCCAGCTTTCAA	1824
AACGACGTTGCATTTTCAGCCTTGGGTATCCTCTCTGCCTGCCAGGAC TTGCTGCAACGTAAAAGTCGGAACCCATAGGAGAGACGGACGGTCCTG	1872
TCTAGCCAGTGTCTGGTACACACTTCTTGGCATGGACACCTAGGTCGA AGATCGGTCACAGACCATGTGTGAAGAACCGTACCTGTGGATCCAGCT	1920
CGCGGGCGCGATTTCGGCCGACTCGAG GCGCCCGCGCTAAGCCGGCTGAGCTC	1946

Fig. 4D

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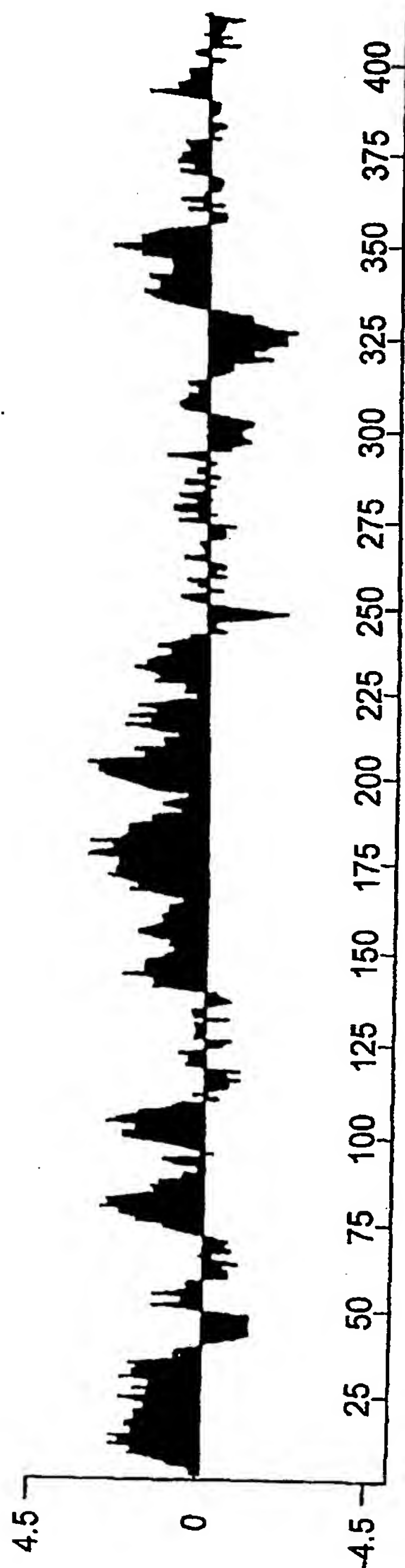
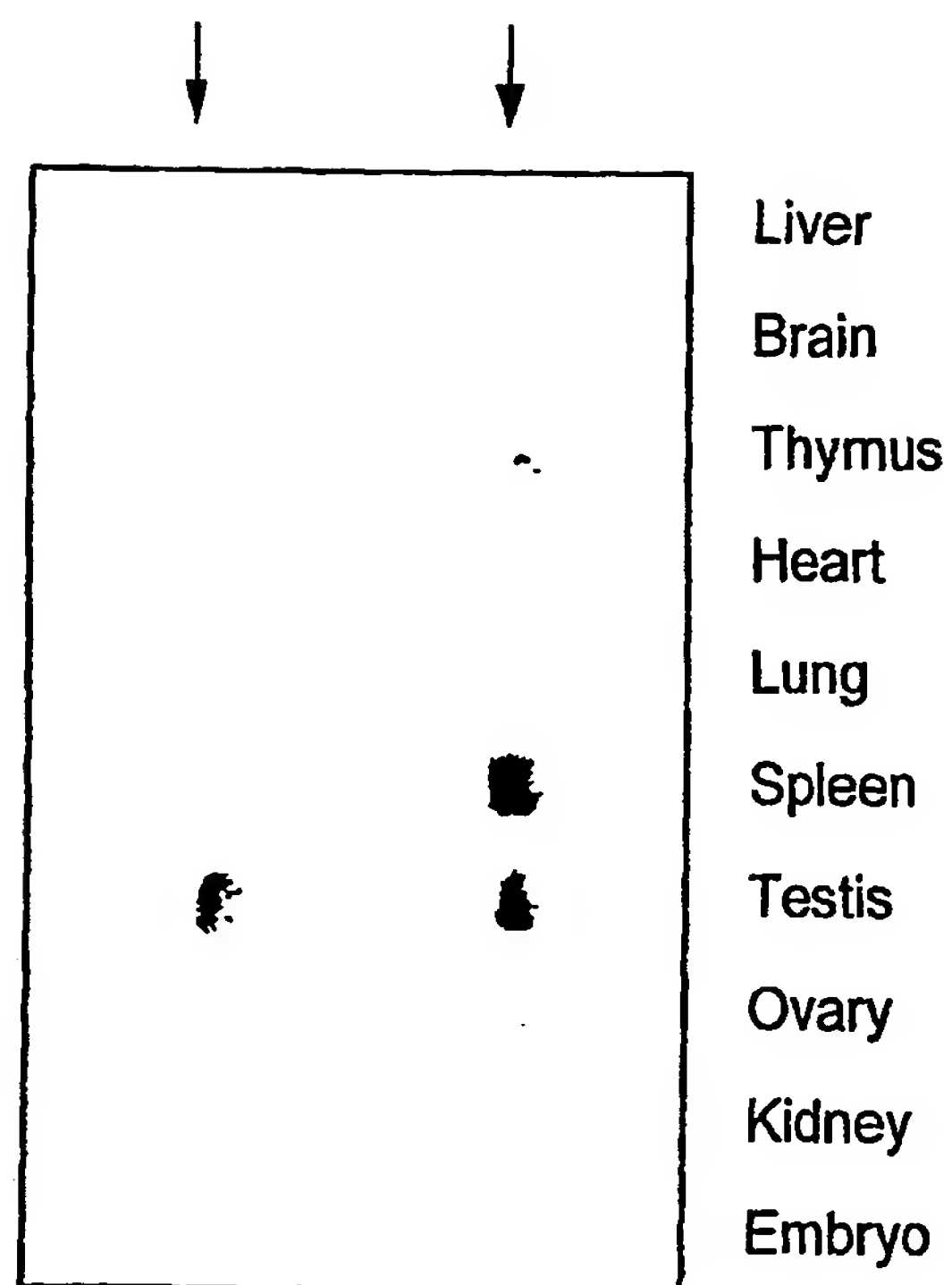


Fig. 5

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*Fig. 6*

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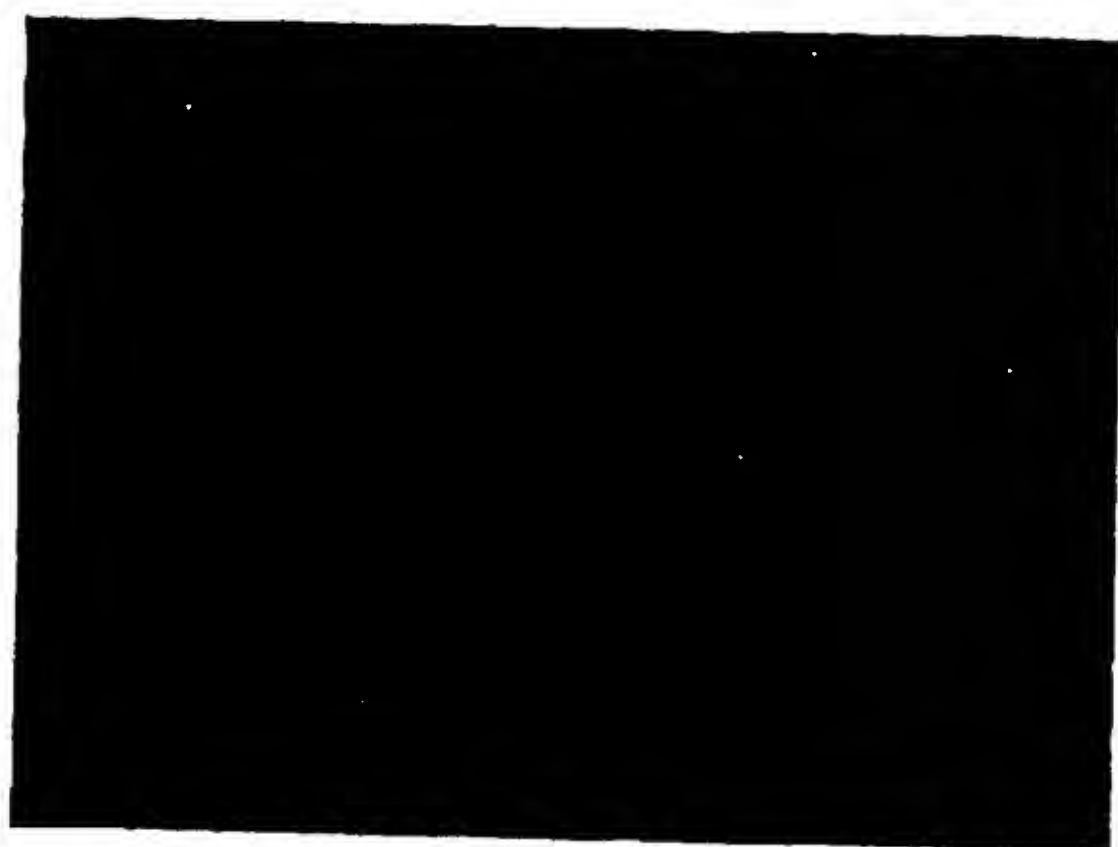


Fig. 7A

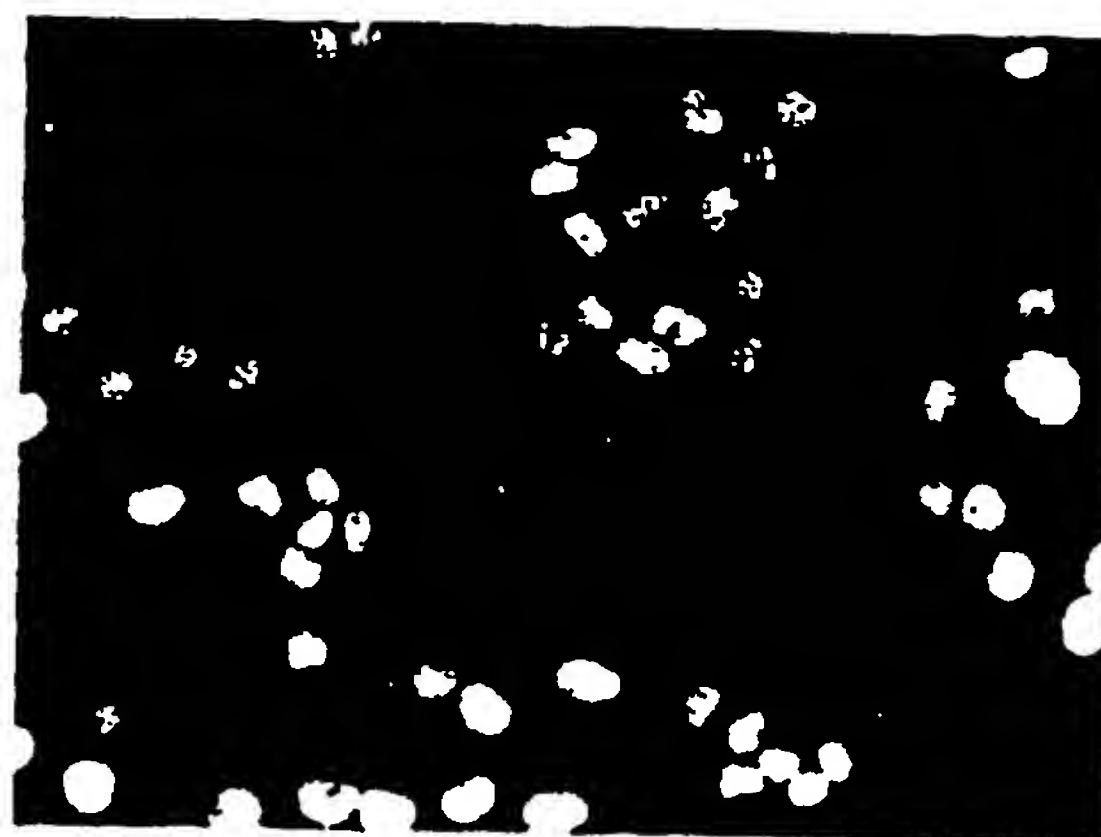


Fig. 7B

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Fig. 7C

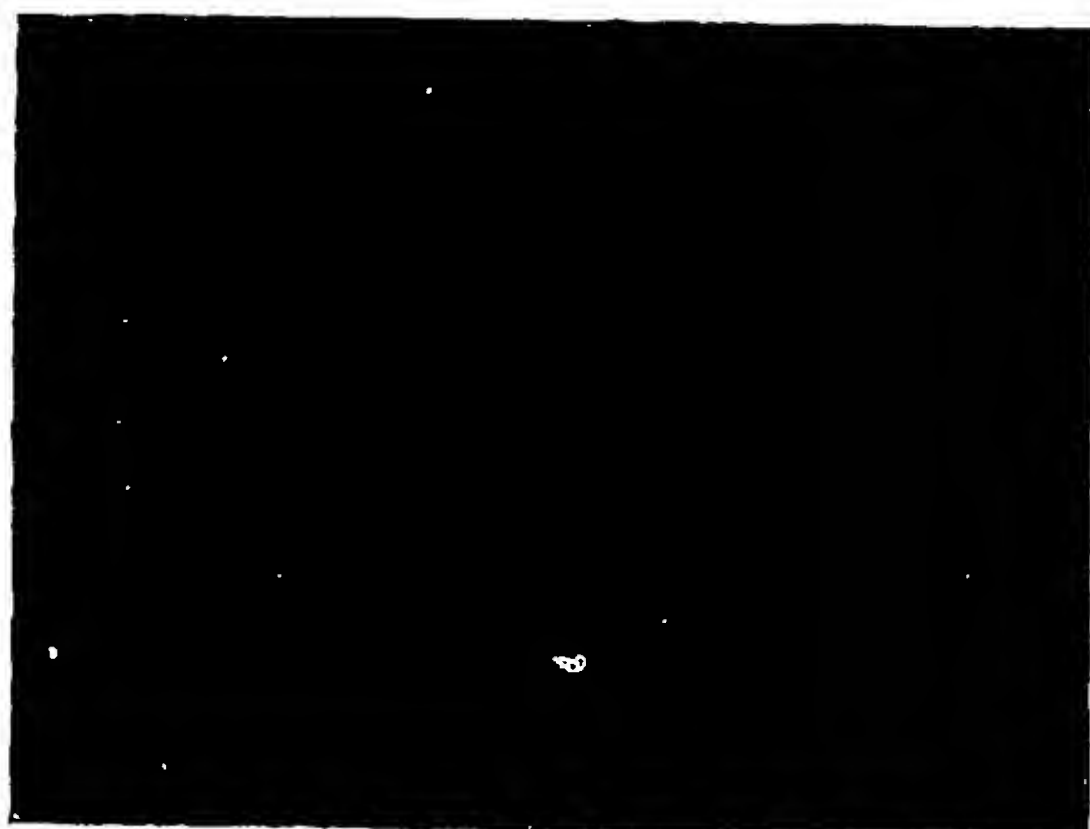


Fig. 7D

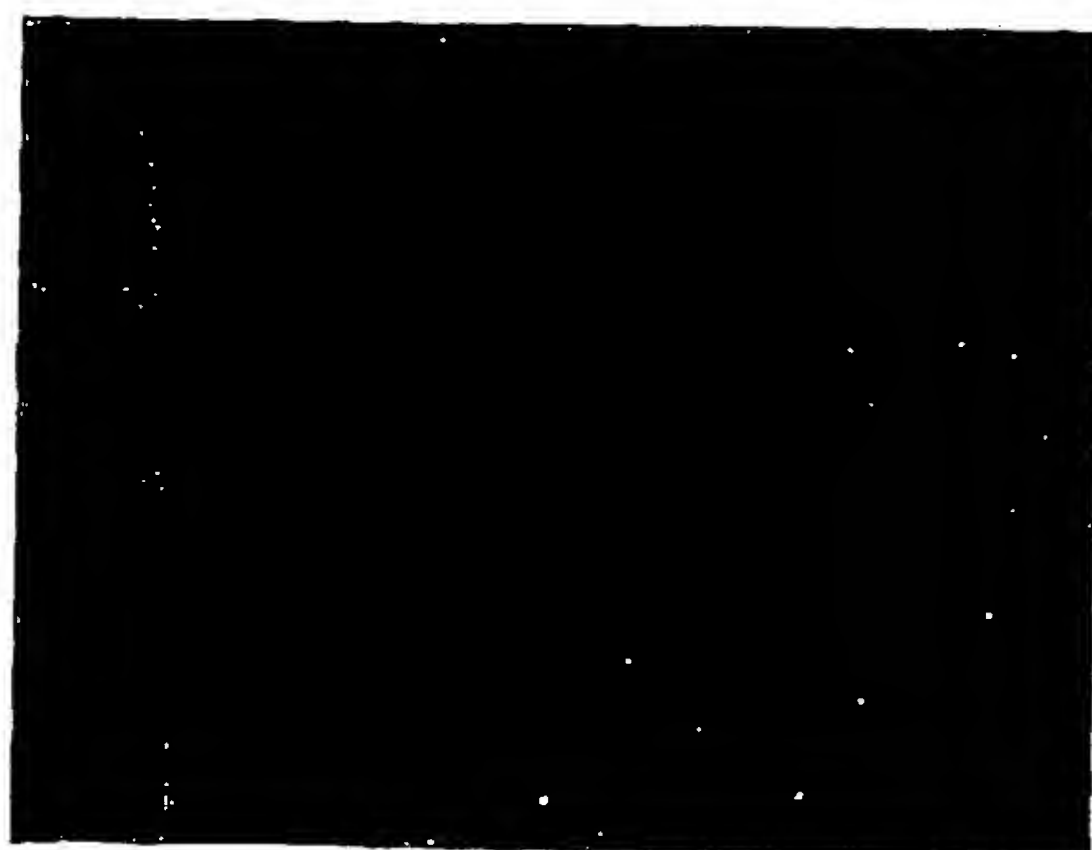
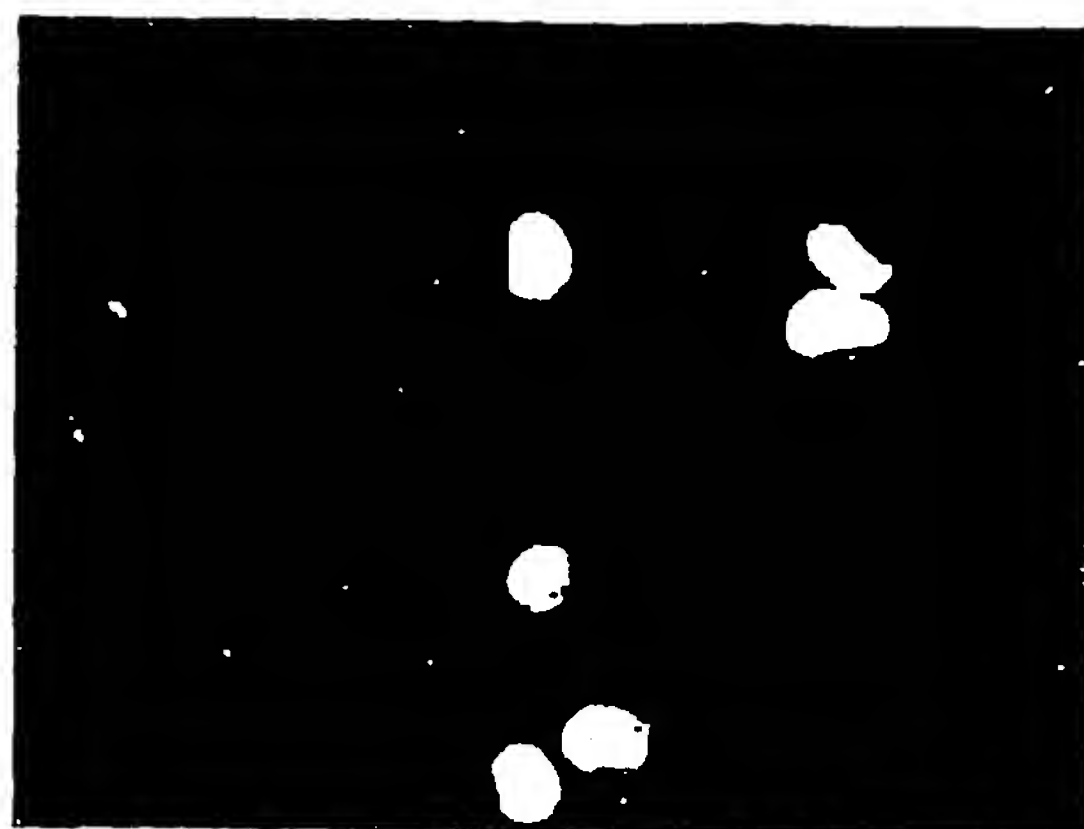


Fig. 7E

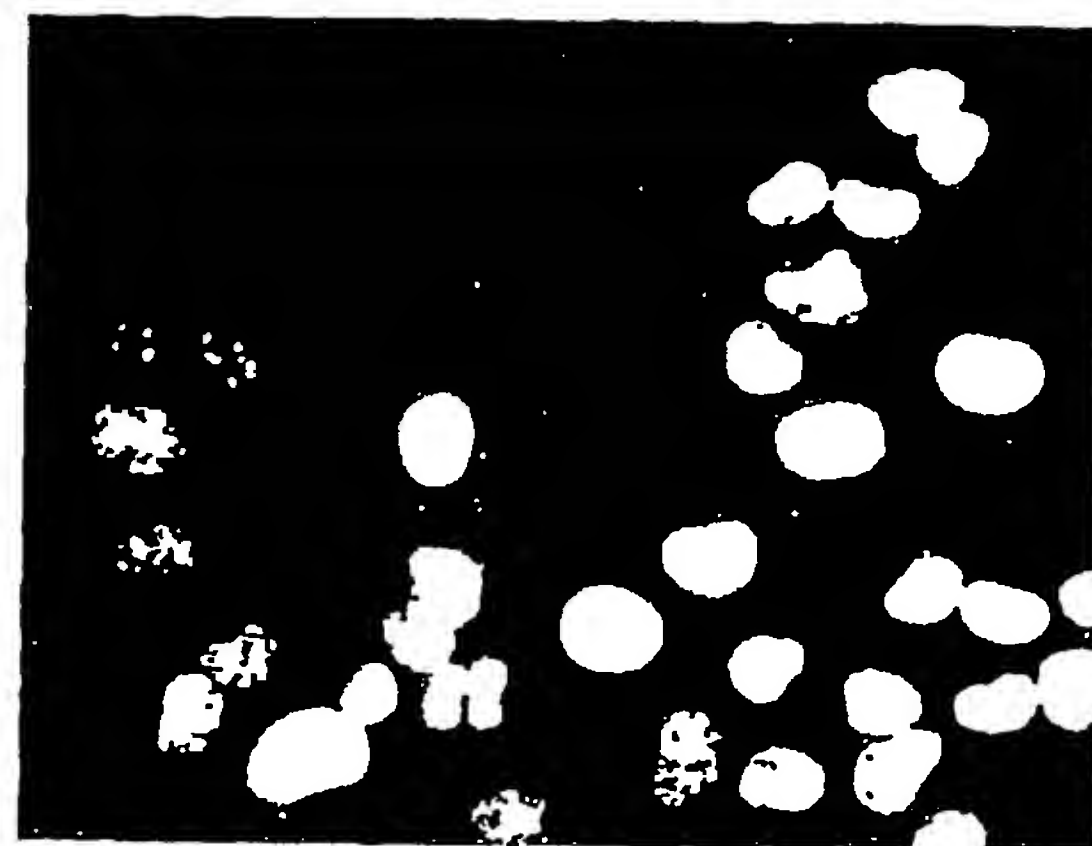
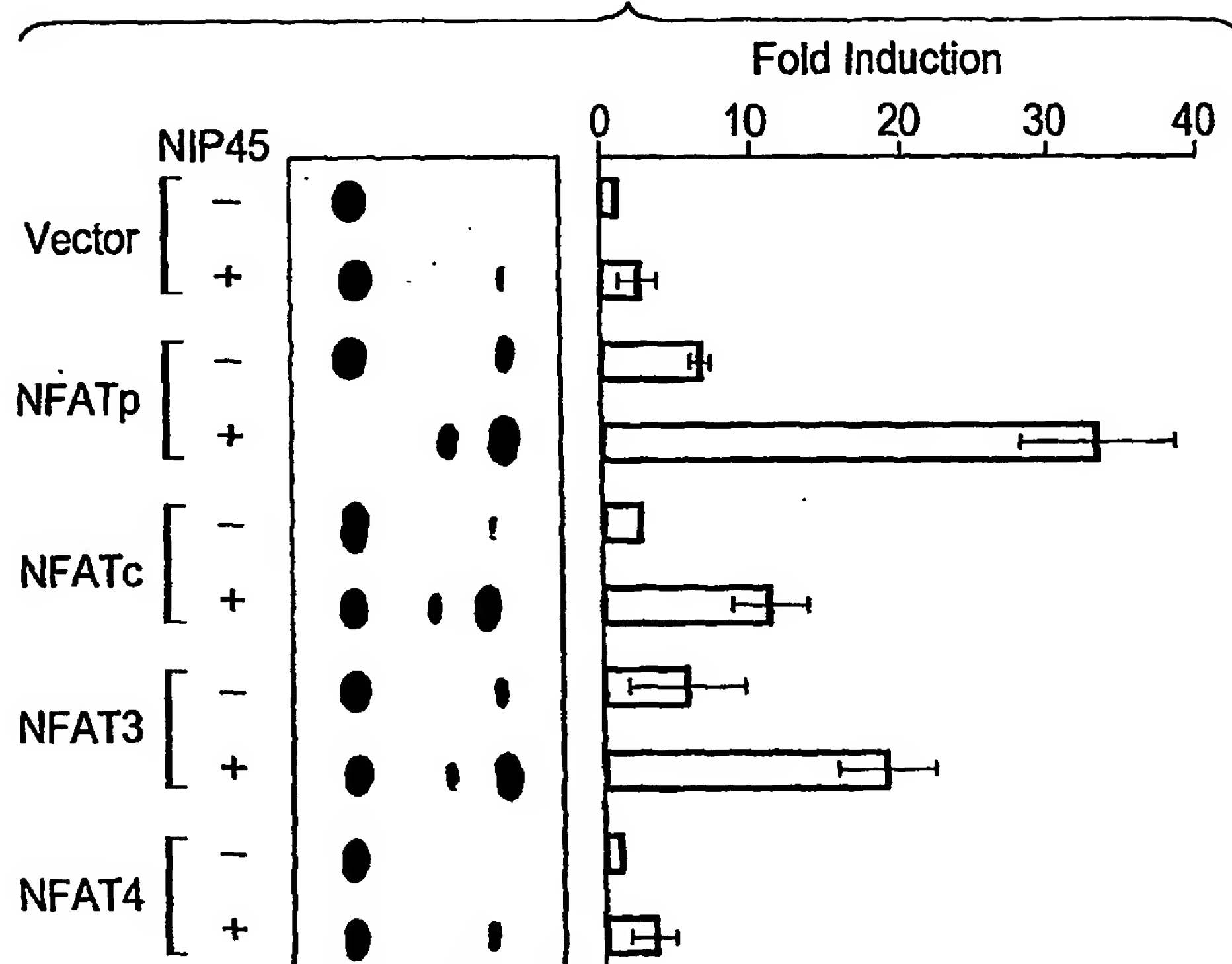
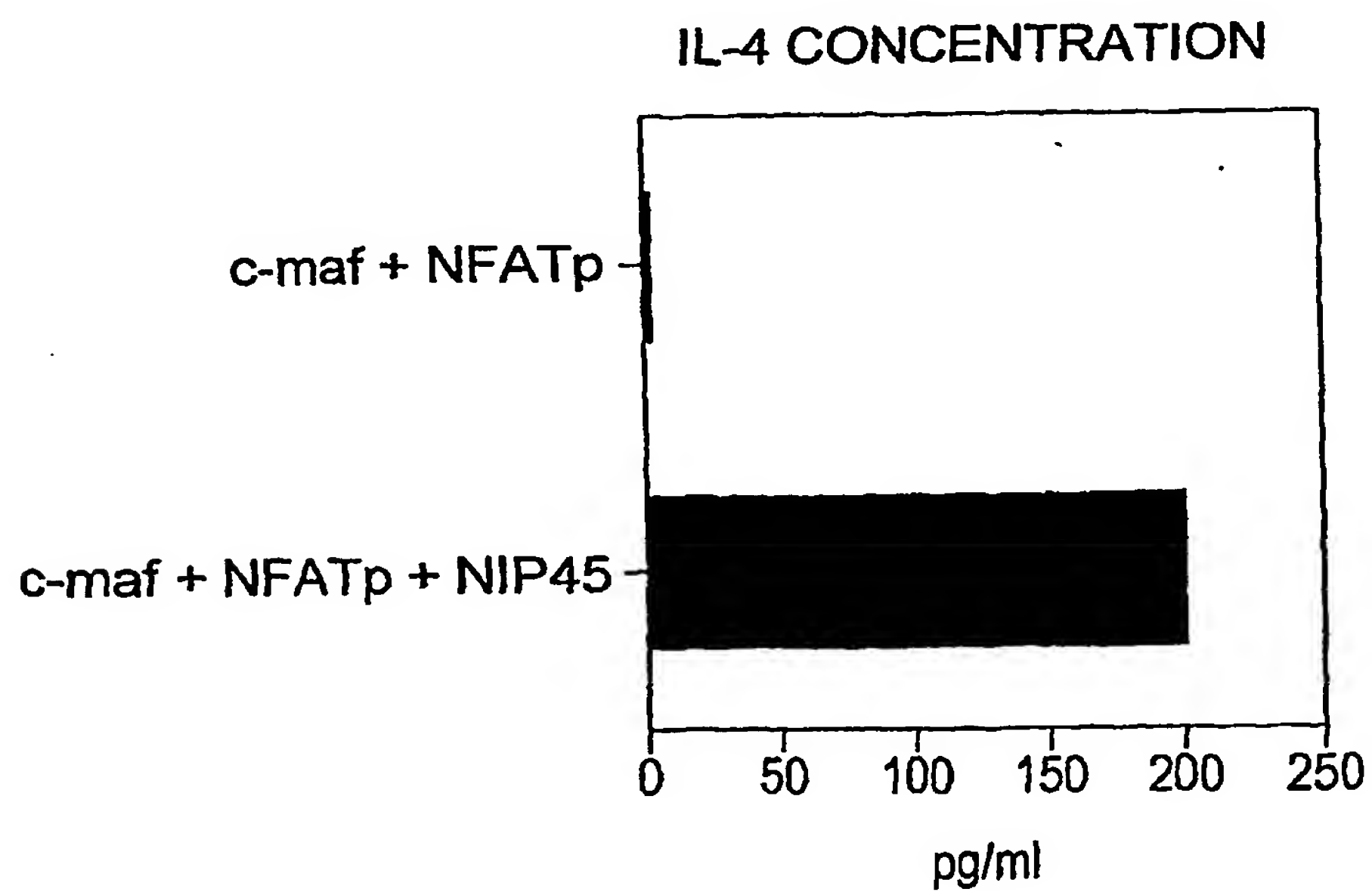
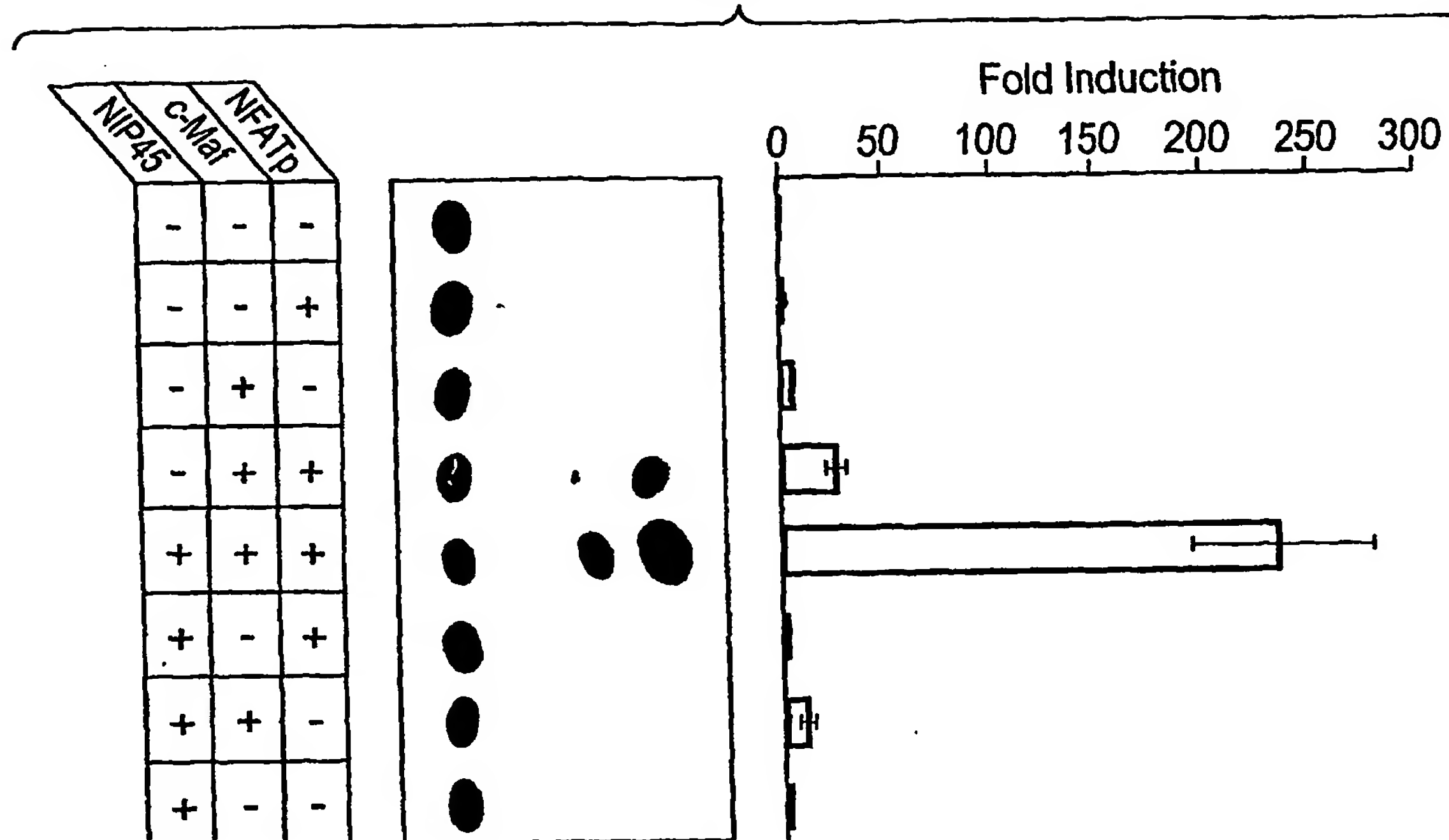


Fig. 7F

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Fig. 8

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Fig. 9*Fig. 10*

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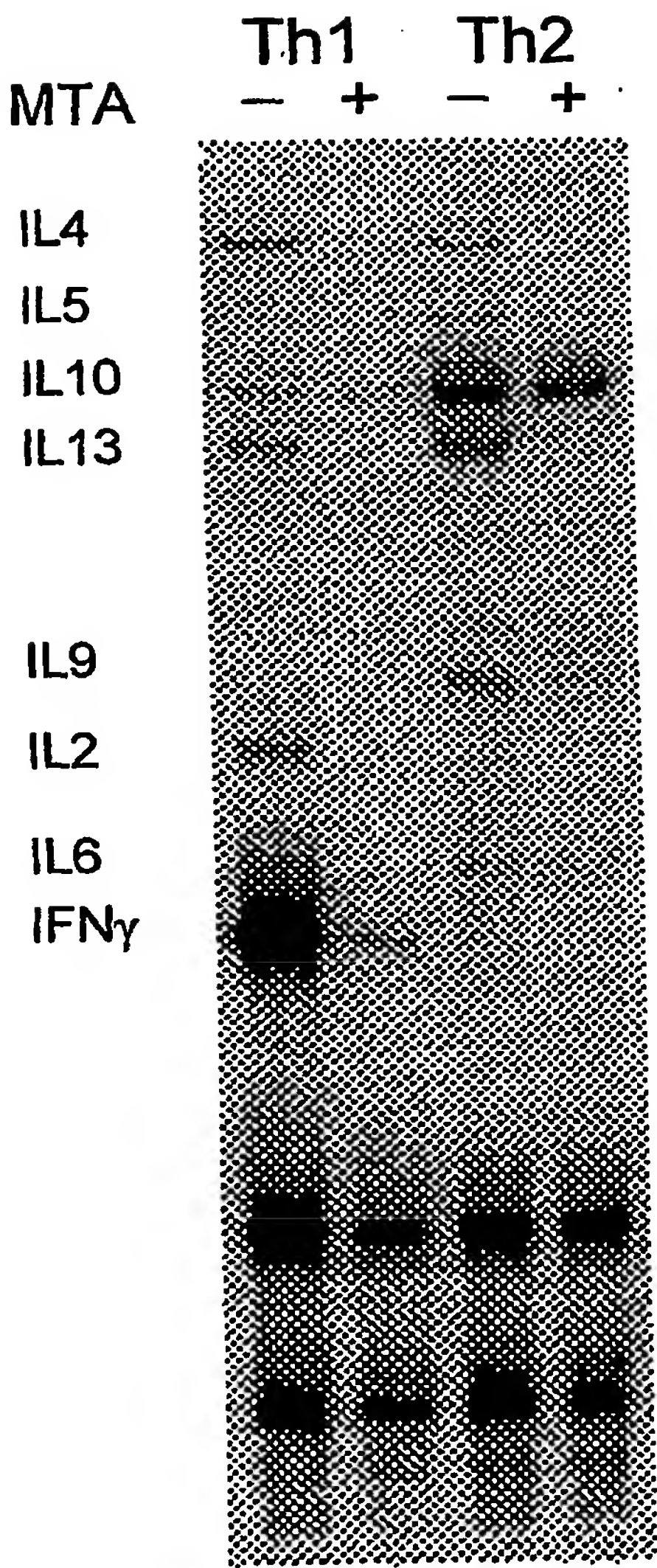
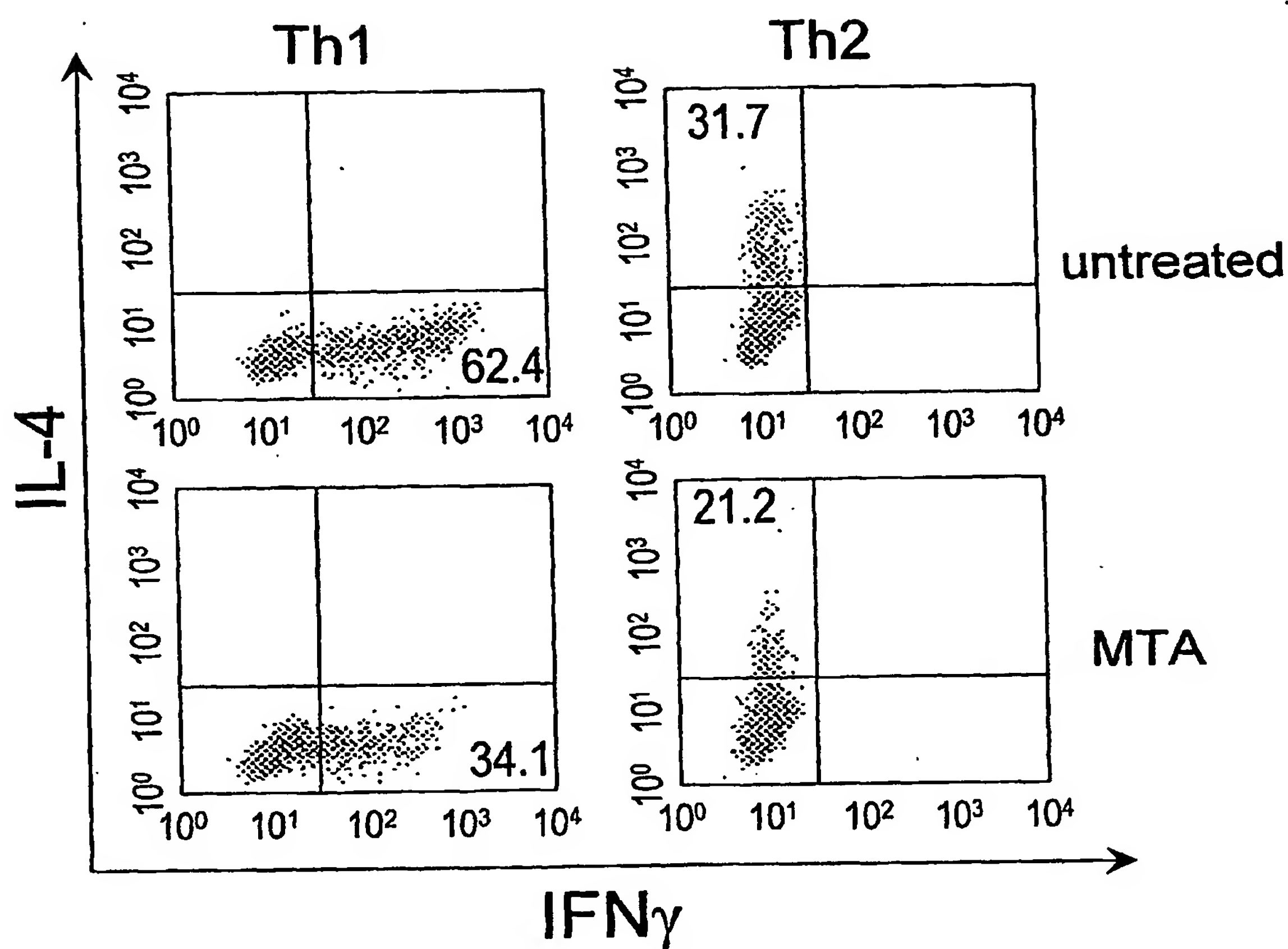


Fig. 11A

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*Fig. 11B*

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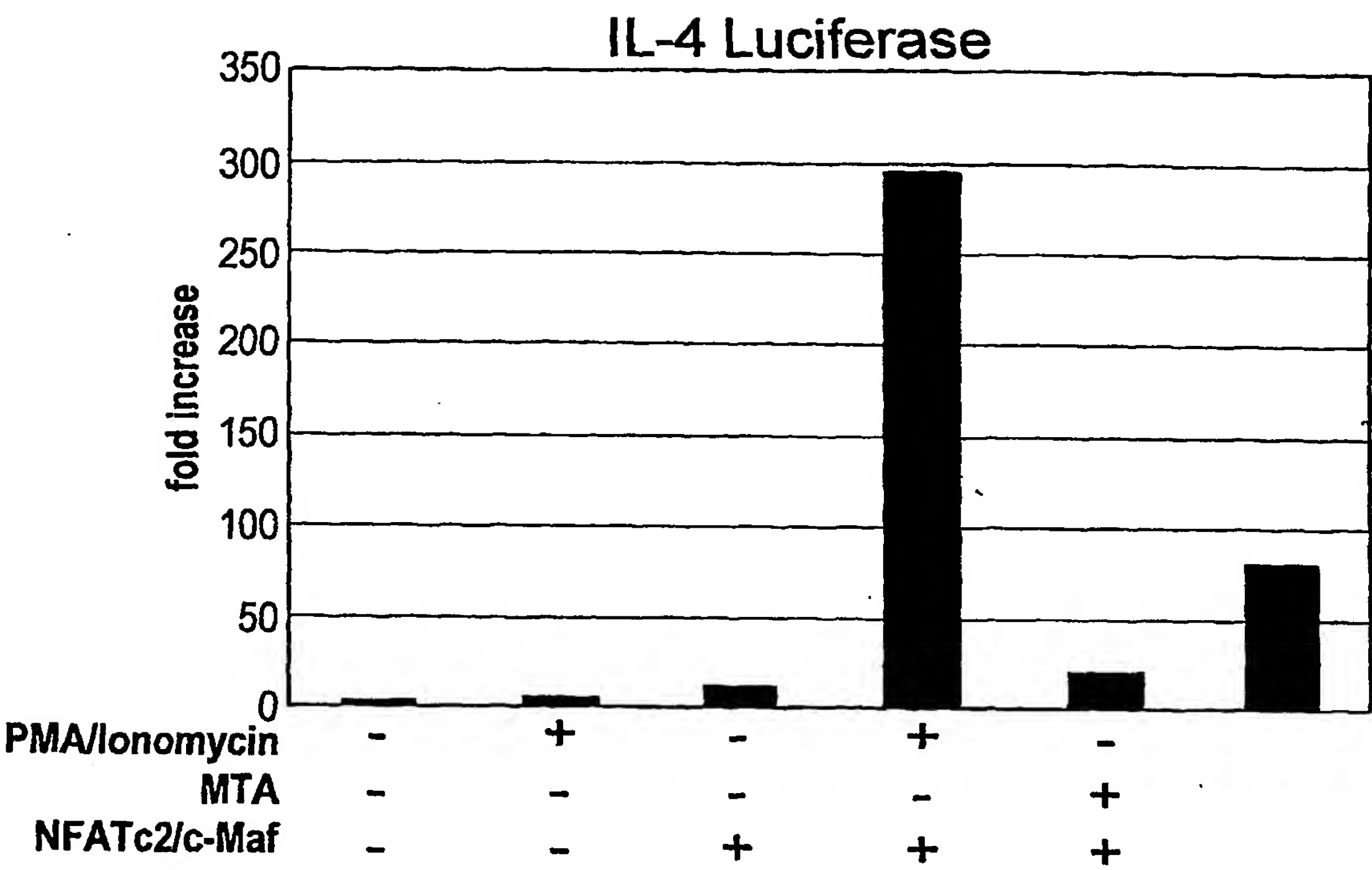


Fig. 11C

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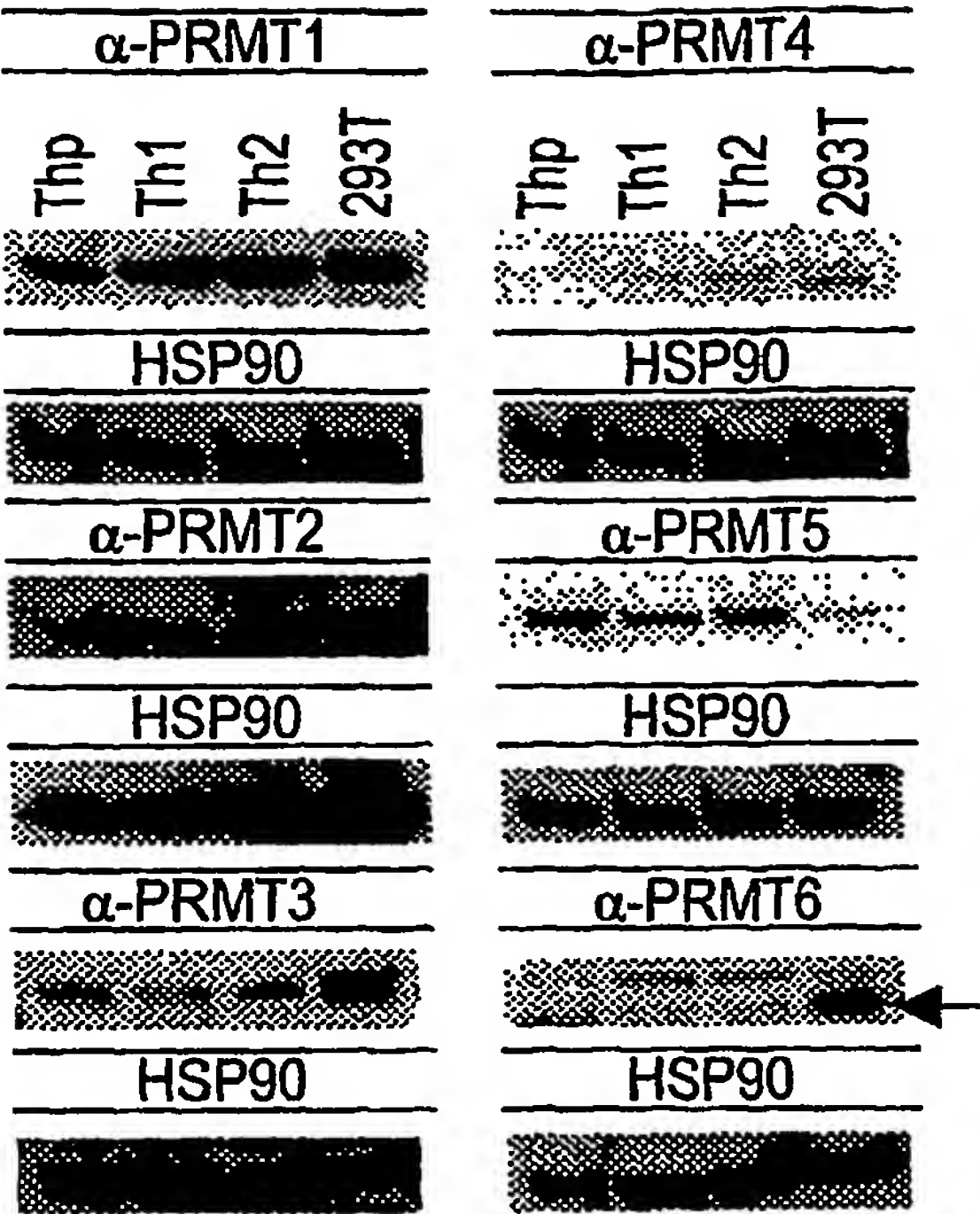


Fig. 12A

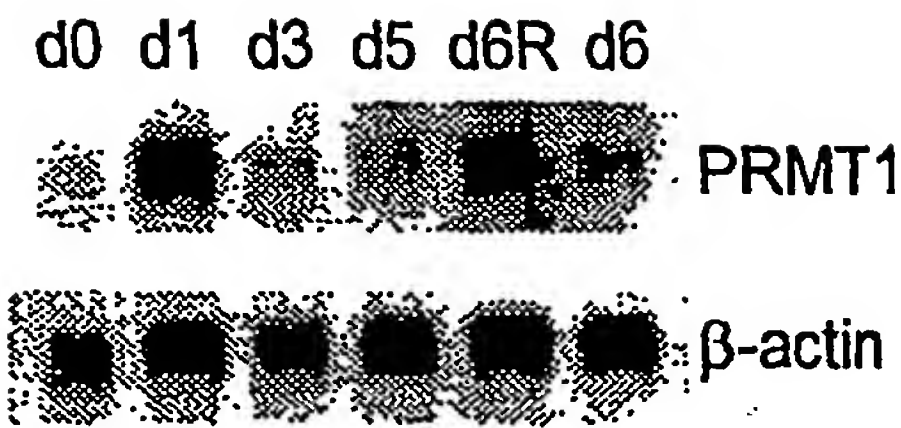


Fig. 12B

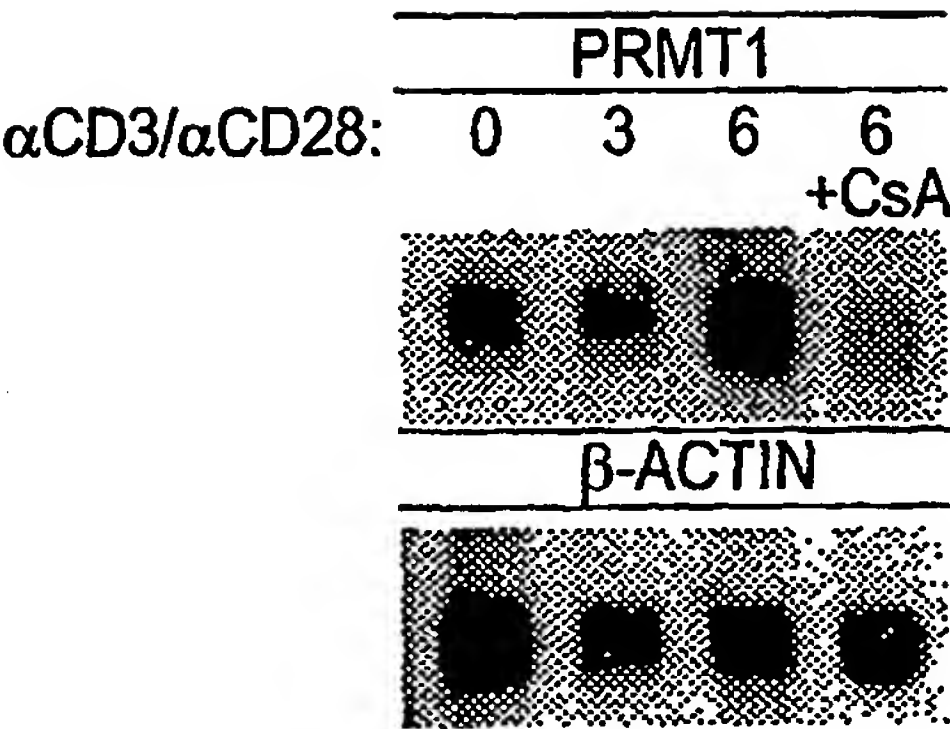


Fig. 12C

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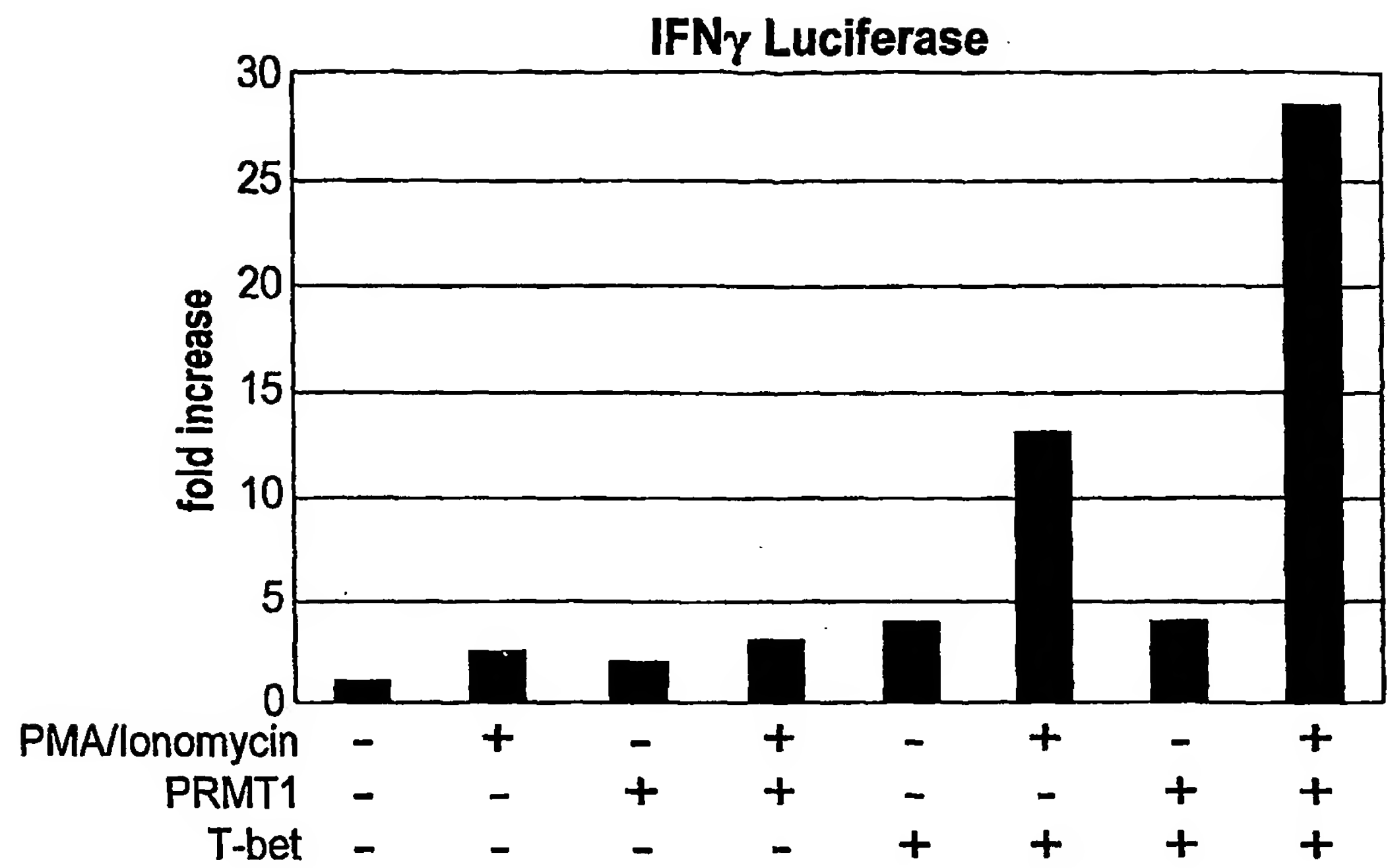


Fig. 13A

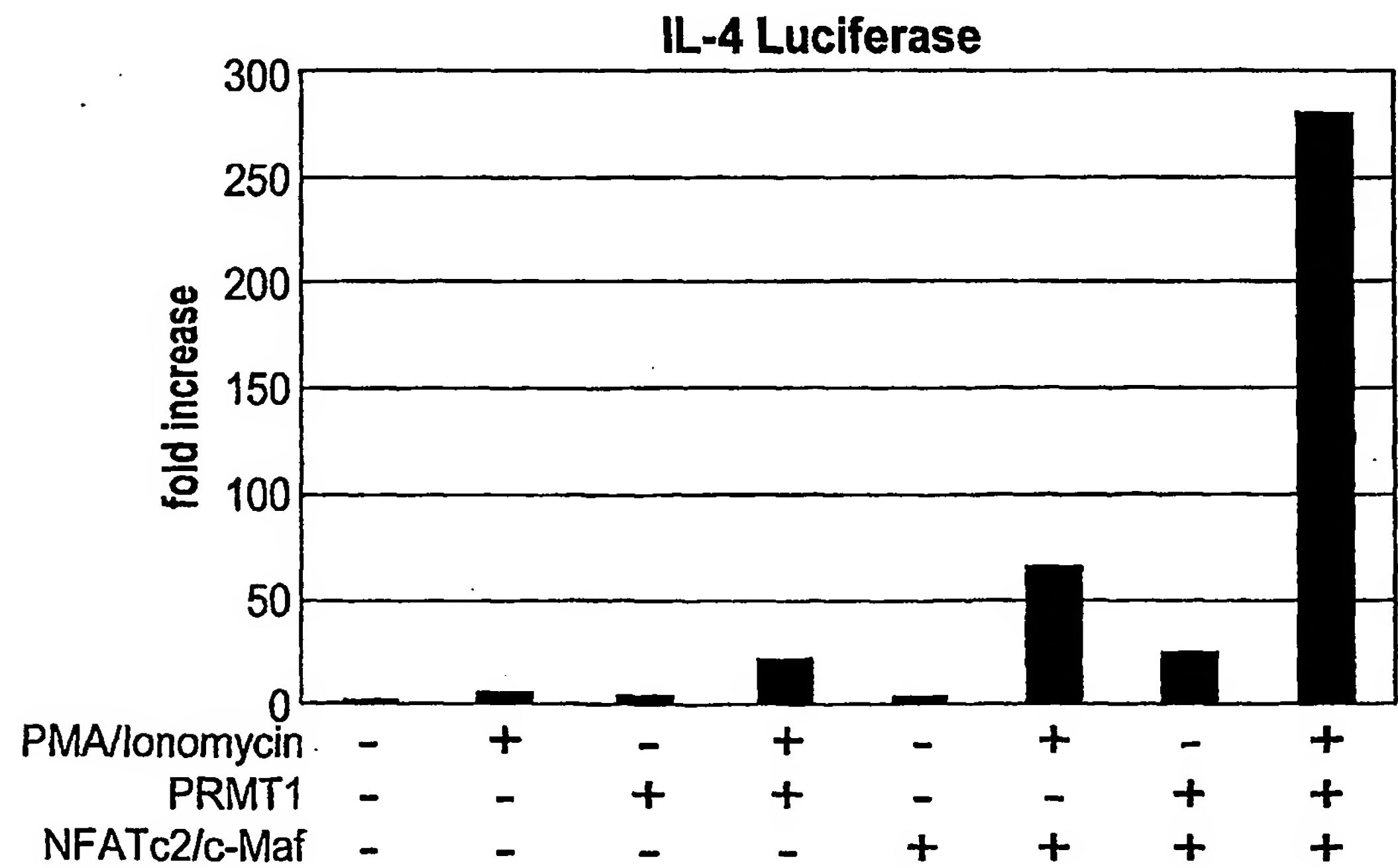


Fig. 13B

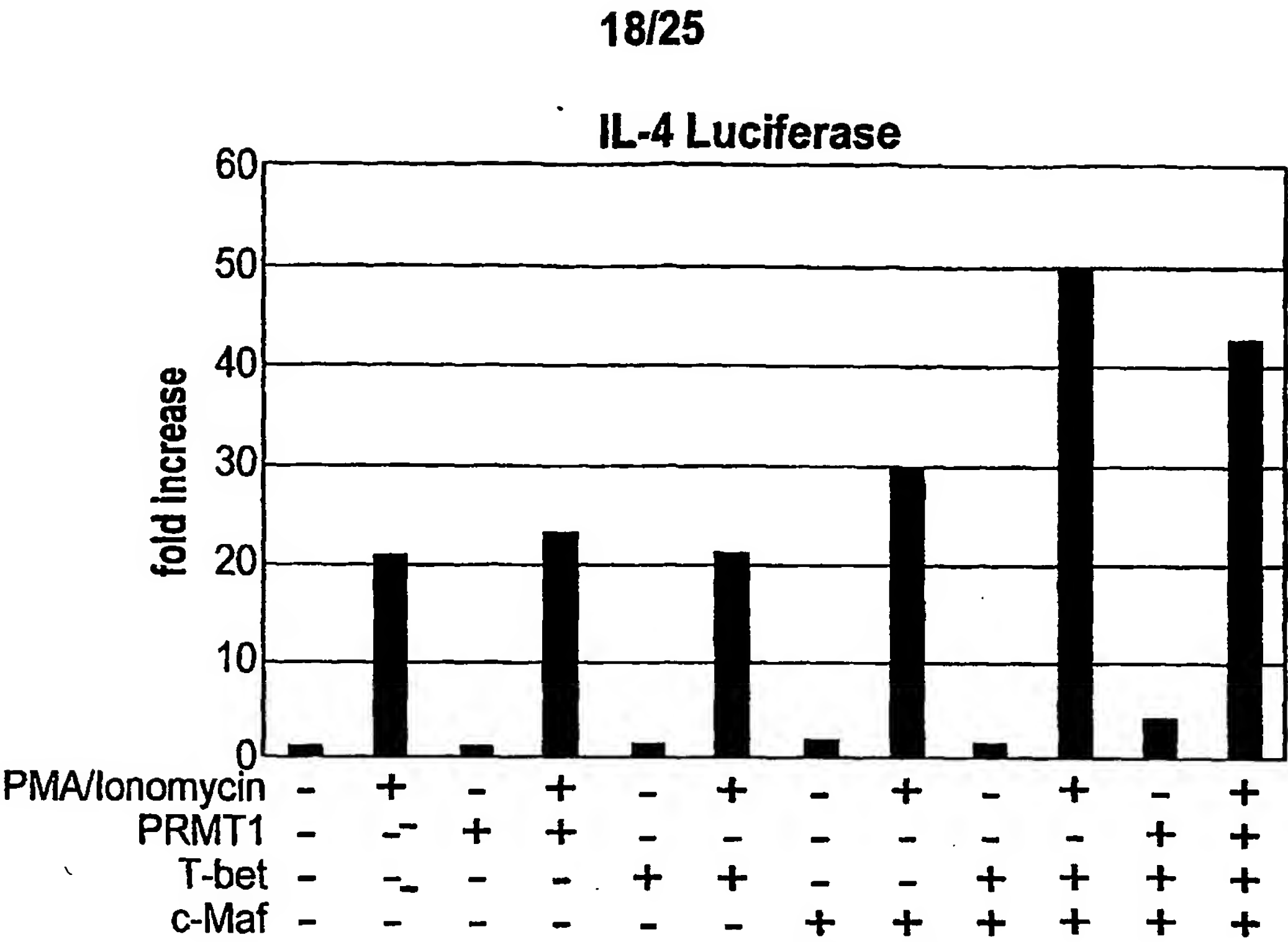


Fig. 13C

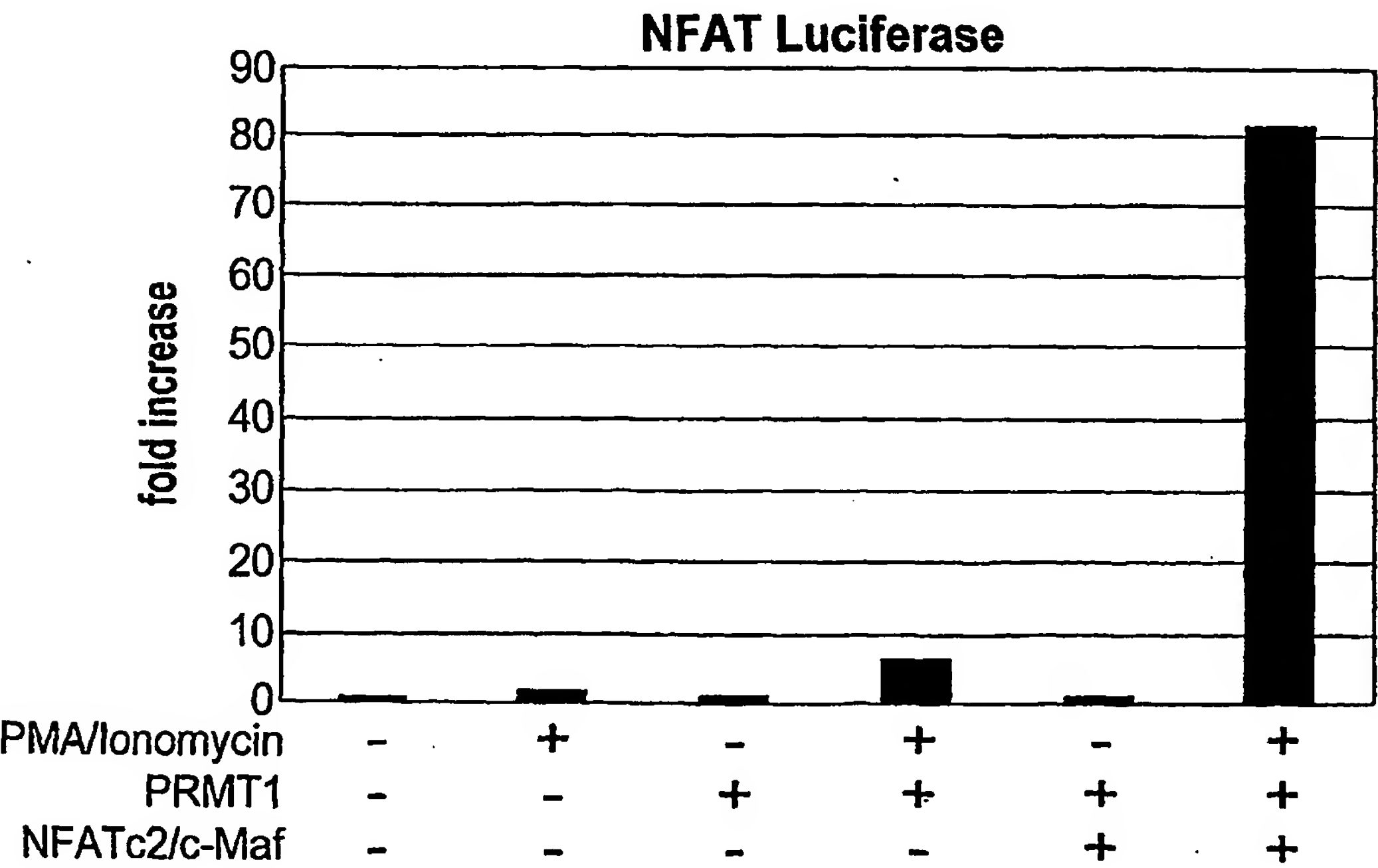


Fig. 13D

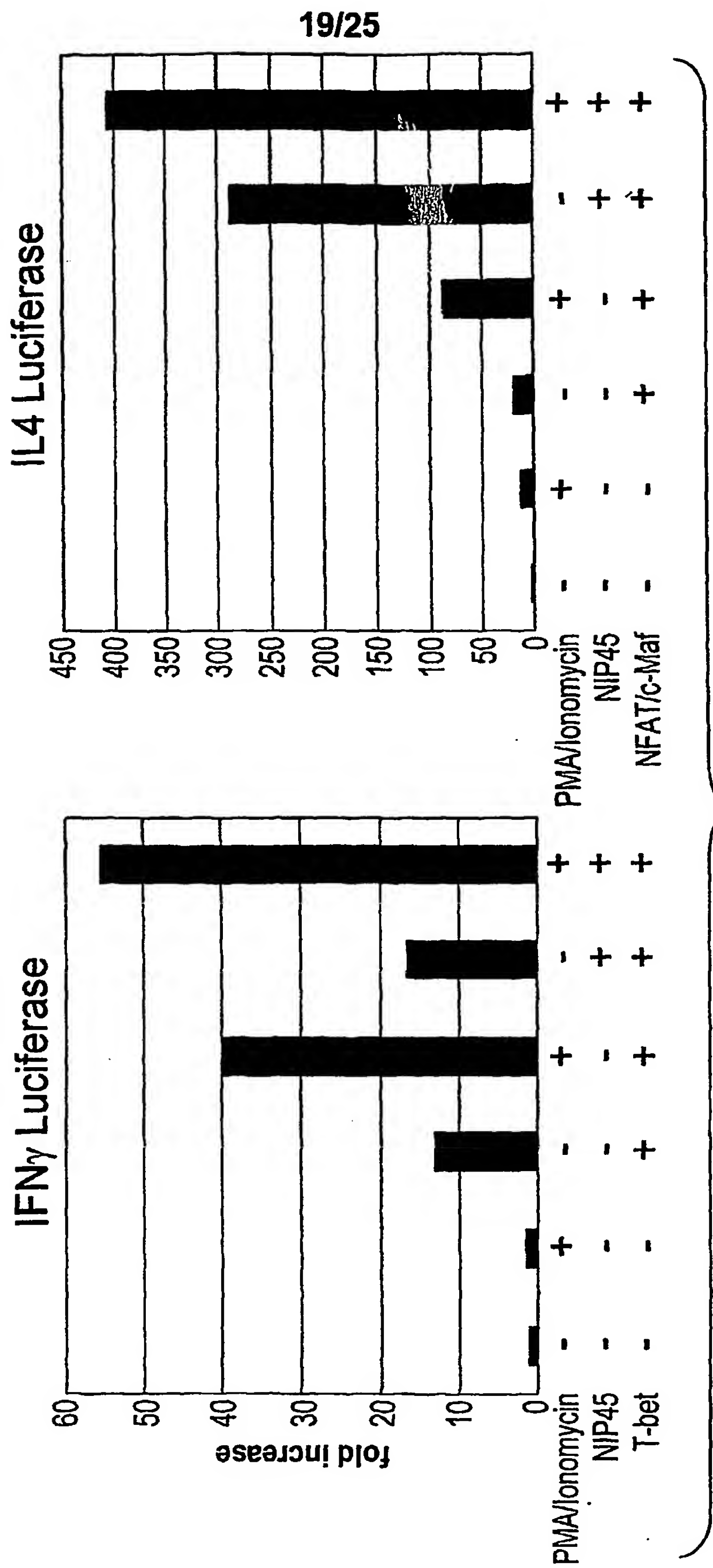


Fig. 14A

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SPARLIPDTVLVDLVSDSDEEVLEVADPVEVPVARLP
APAKPEQDSDSDSEGA AEGPAGAPRTLVRRRRRRL
LDPGEAPVVPVYSGKVQSSNLIPDNSSLLKLCPS
PEDEADLTNSGSSPSEDDALPSGSPWRKKLRKKCE
KEEKKMEEFPDQDISPLPQPSSRNKSRKHTEALQKL
REVNKRLQDLRSCLSPKQHQSALQSTDDEVVLVE
GPVLPQSSRLFTLKIRCRADLVRLPVRMSEPLQNVV
DHMANHLGVSPNRILLFGESELSPTATPSTLKL
GVA
DIIDCVVLASSSEATETSQELRLRVQGKEKHQMLEIS
LSPDSPLKVLMSHYEEAMGLSGHKLSFFFDG
TKLS
GKELPADLGLESGDLIEVWG

Fig. 14B

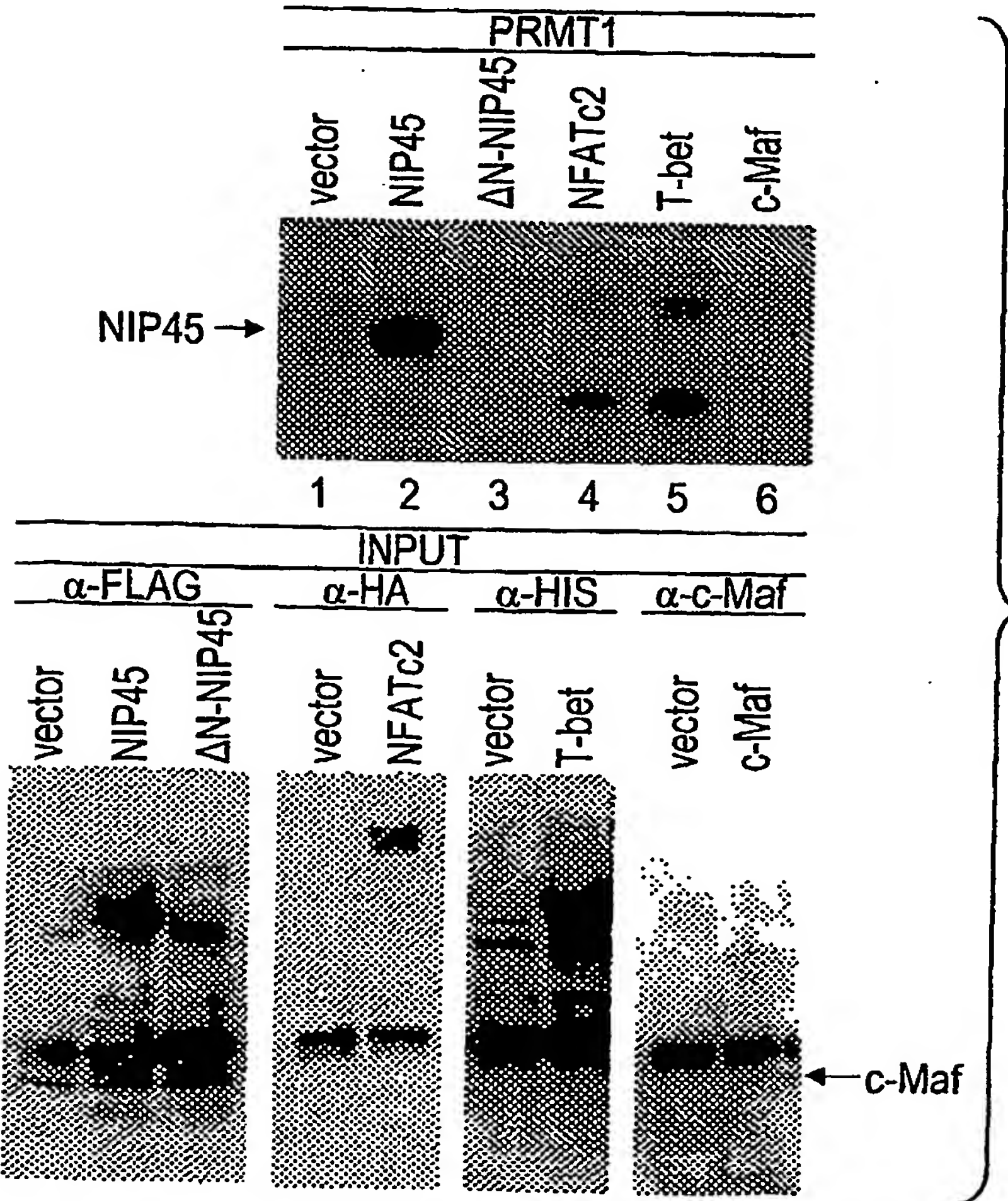


Fig. 14C

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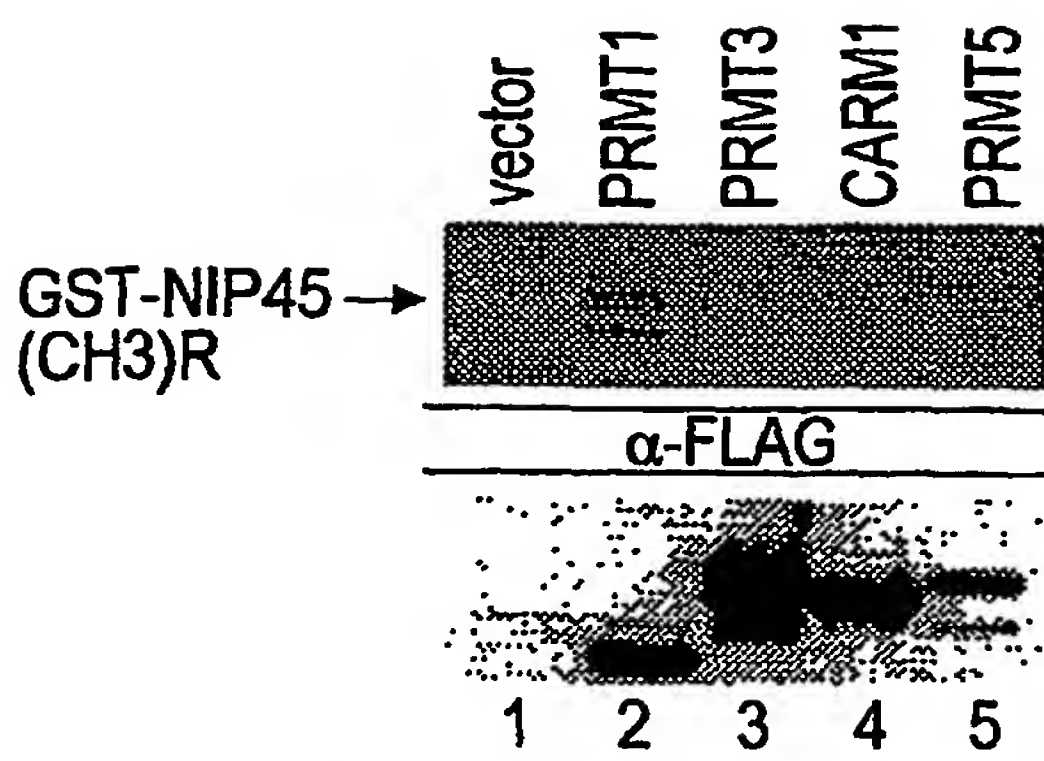


Fig. 15A

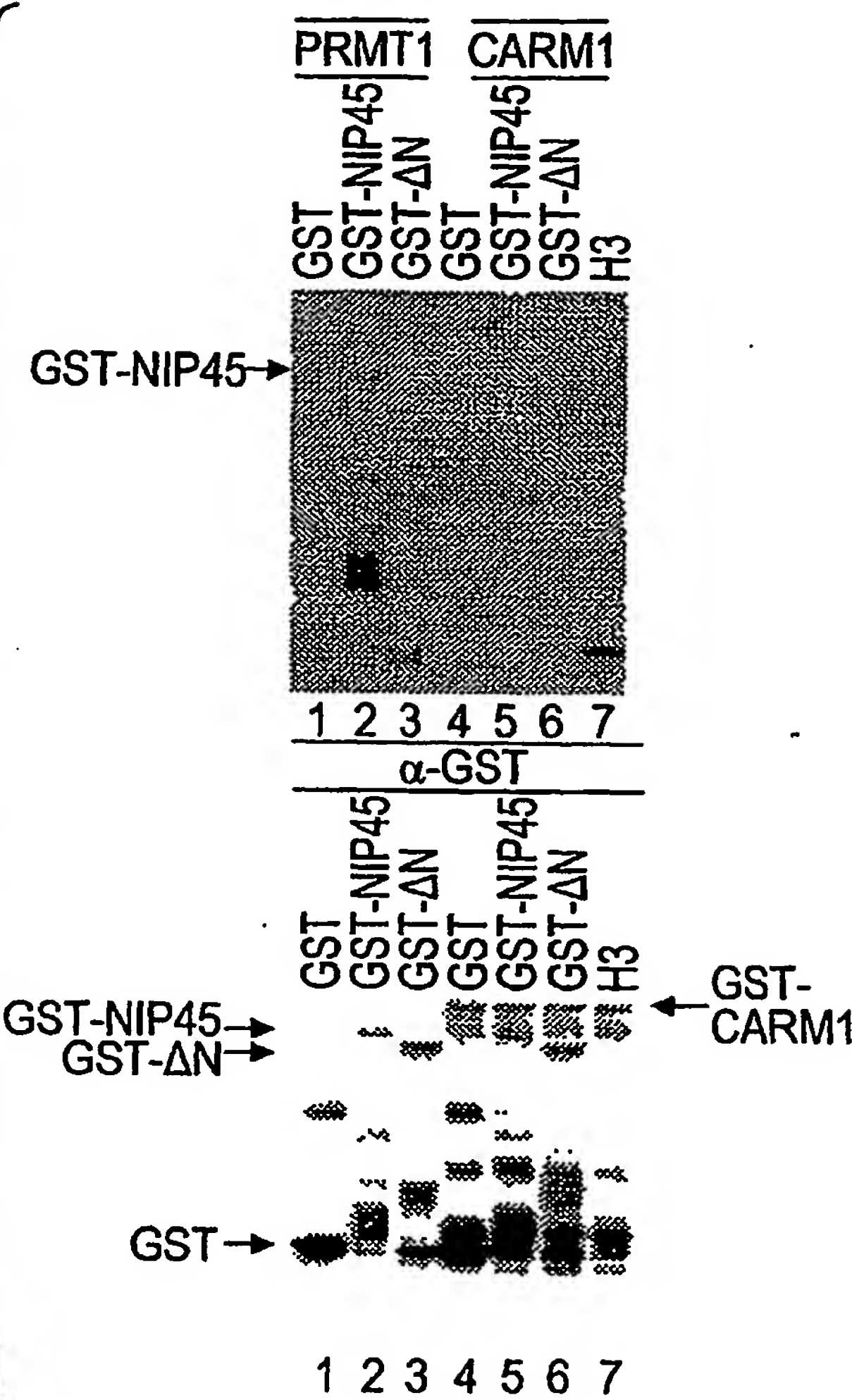


Fig. 15B

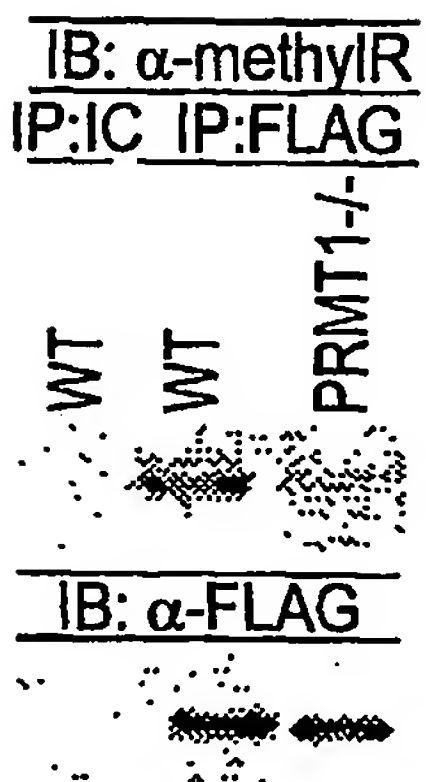


Fig. 15C

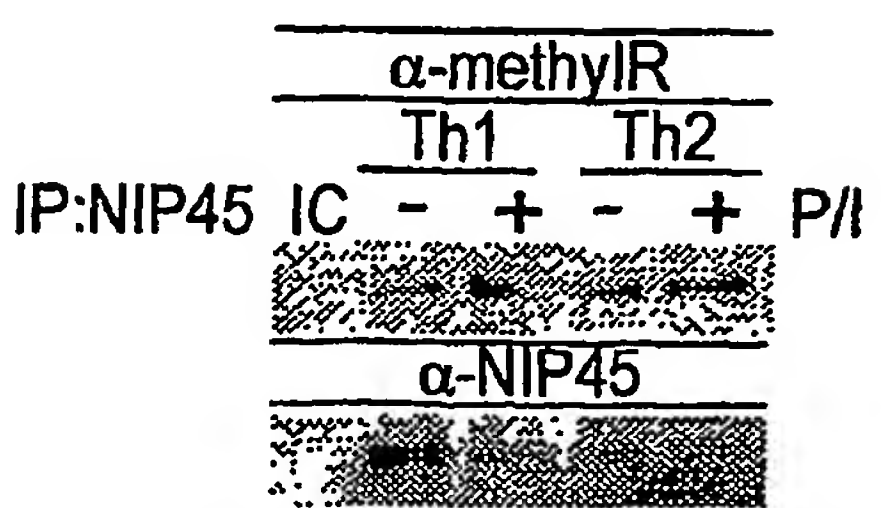


Fig. 15D

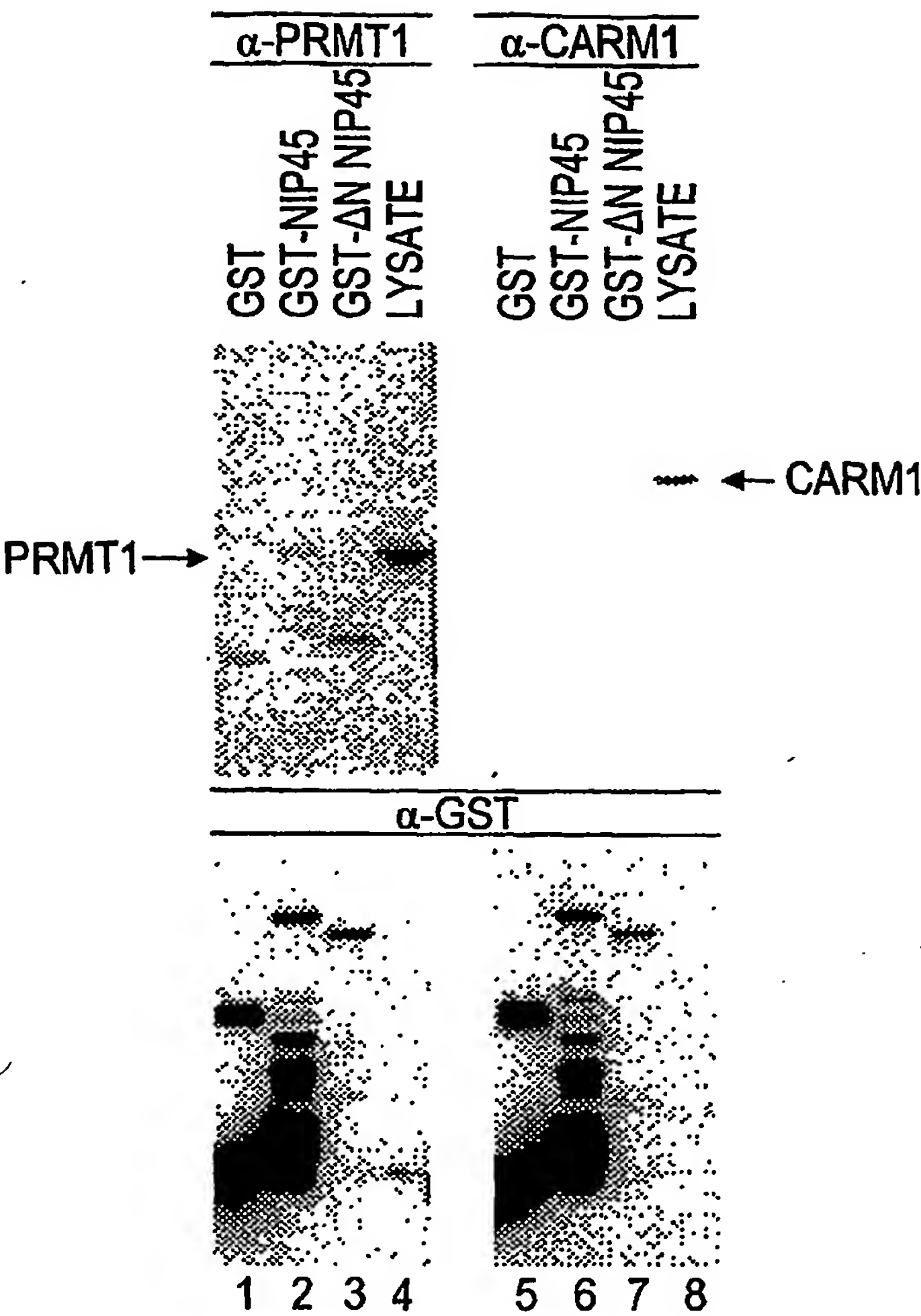


Fig. 16A

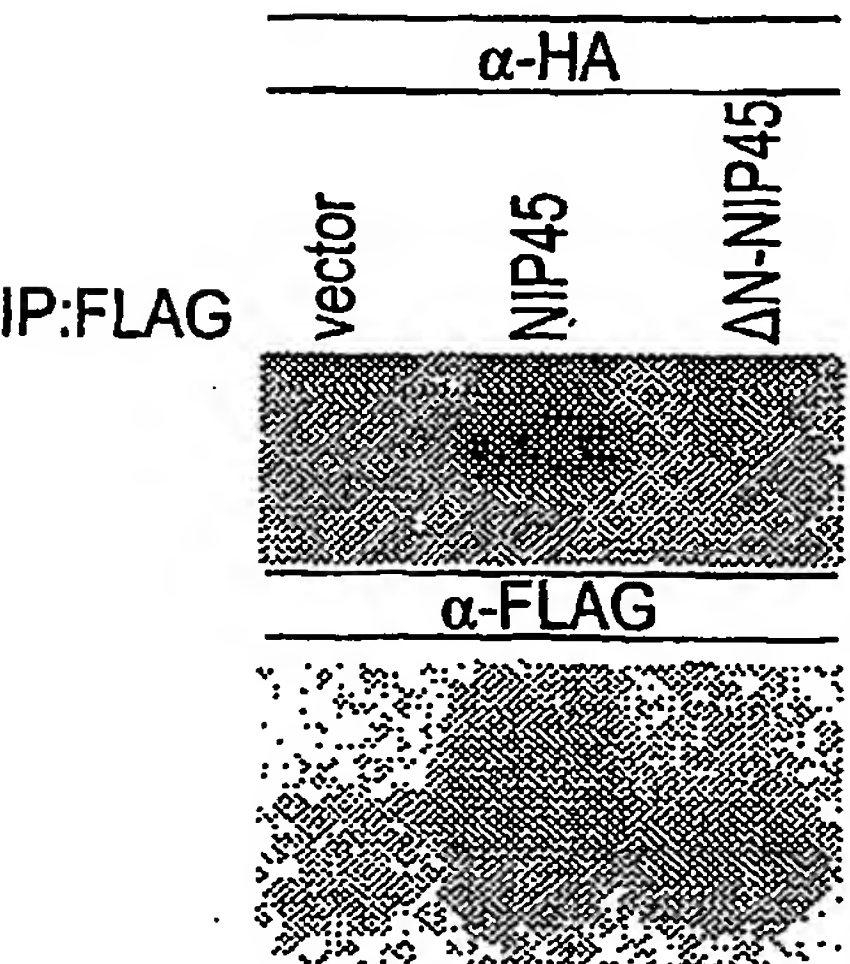


Fig. 16B

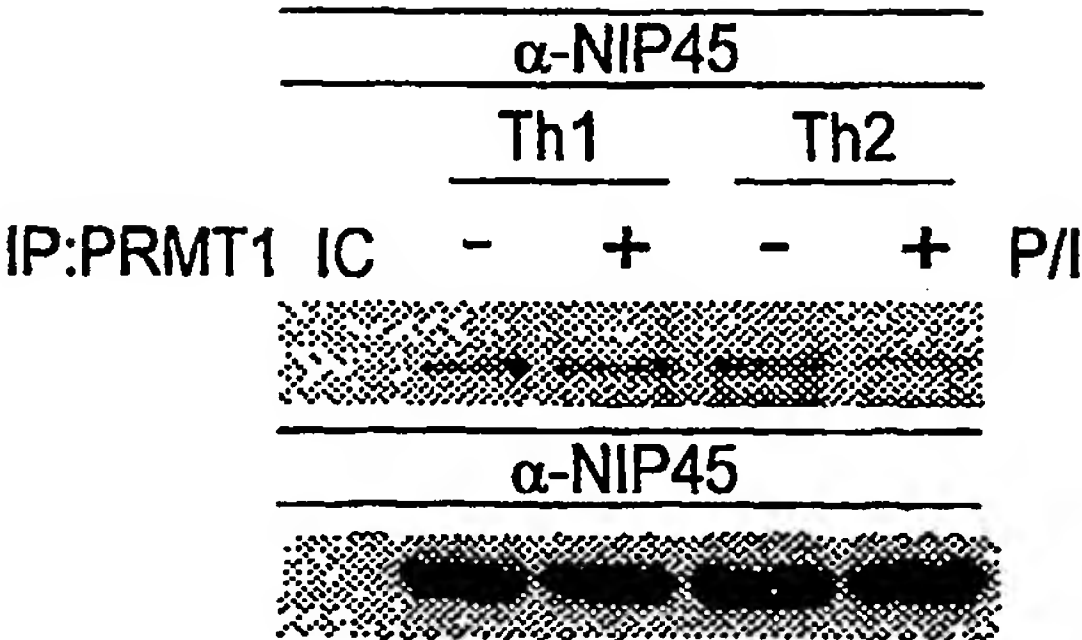


Fig. 16C

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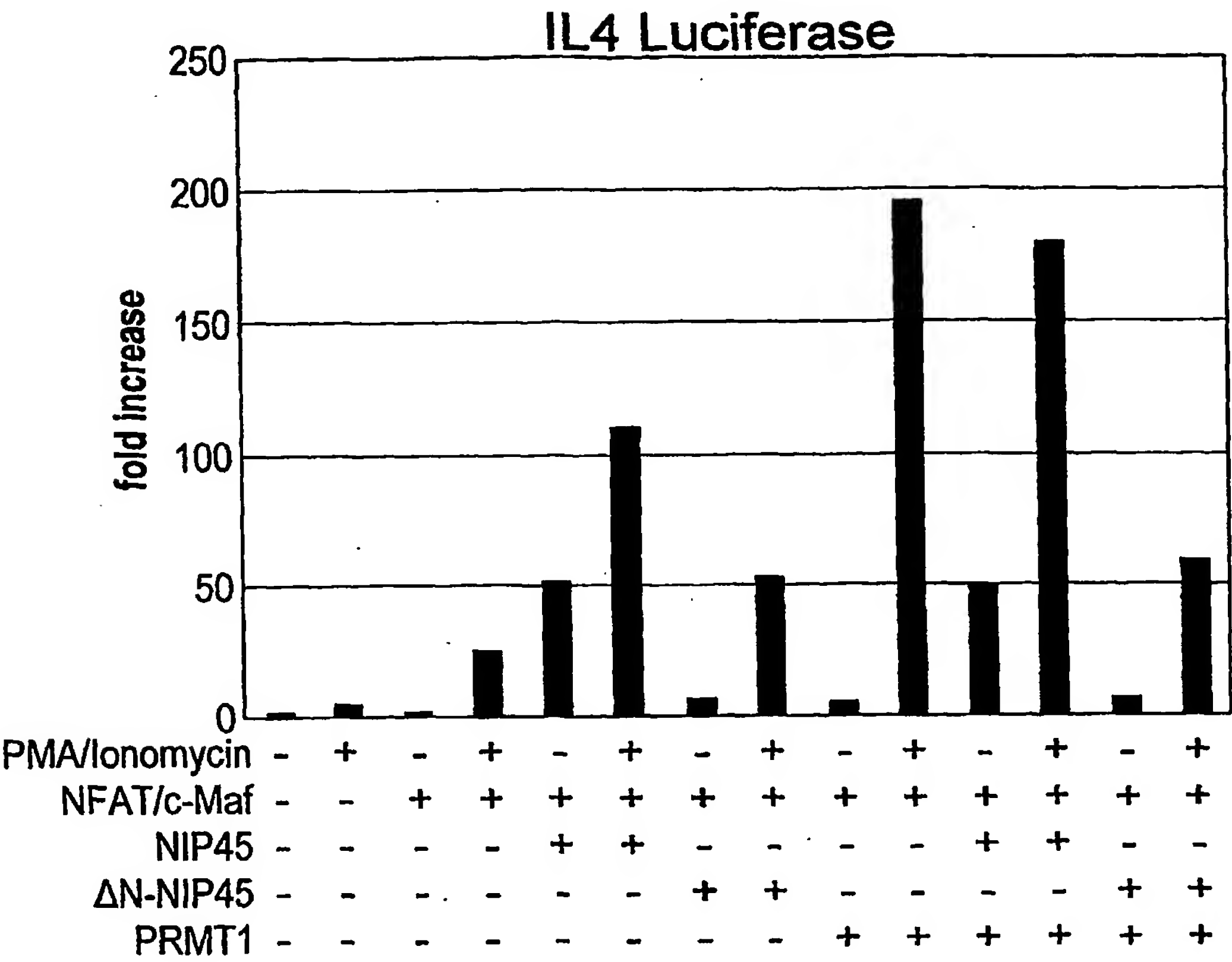


Fig. 17A

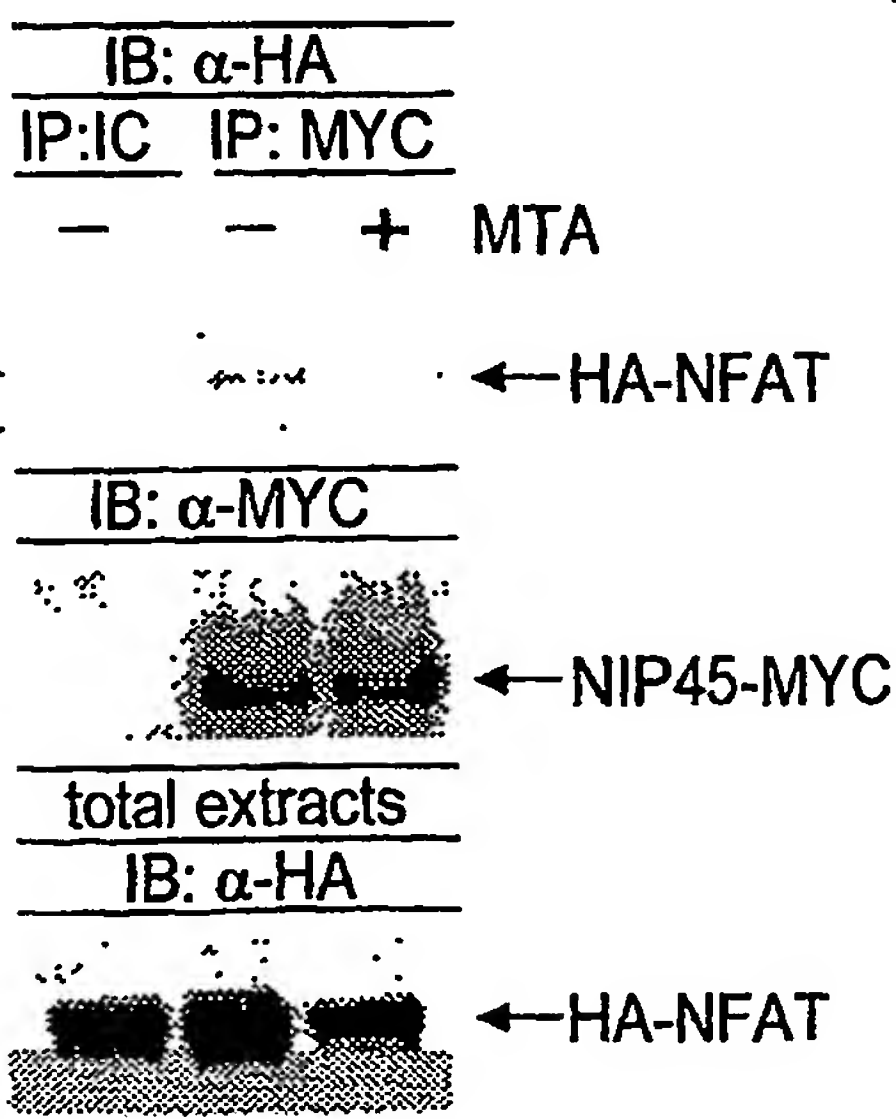
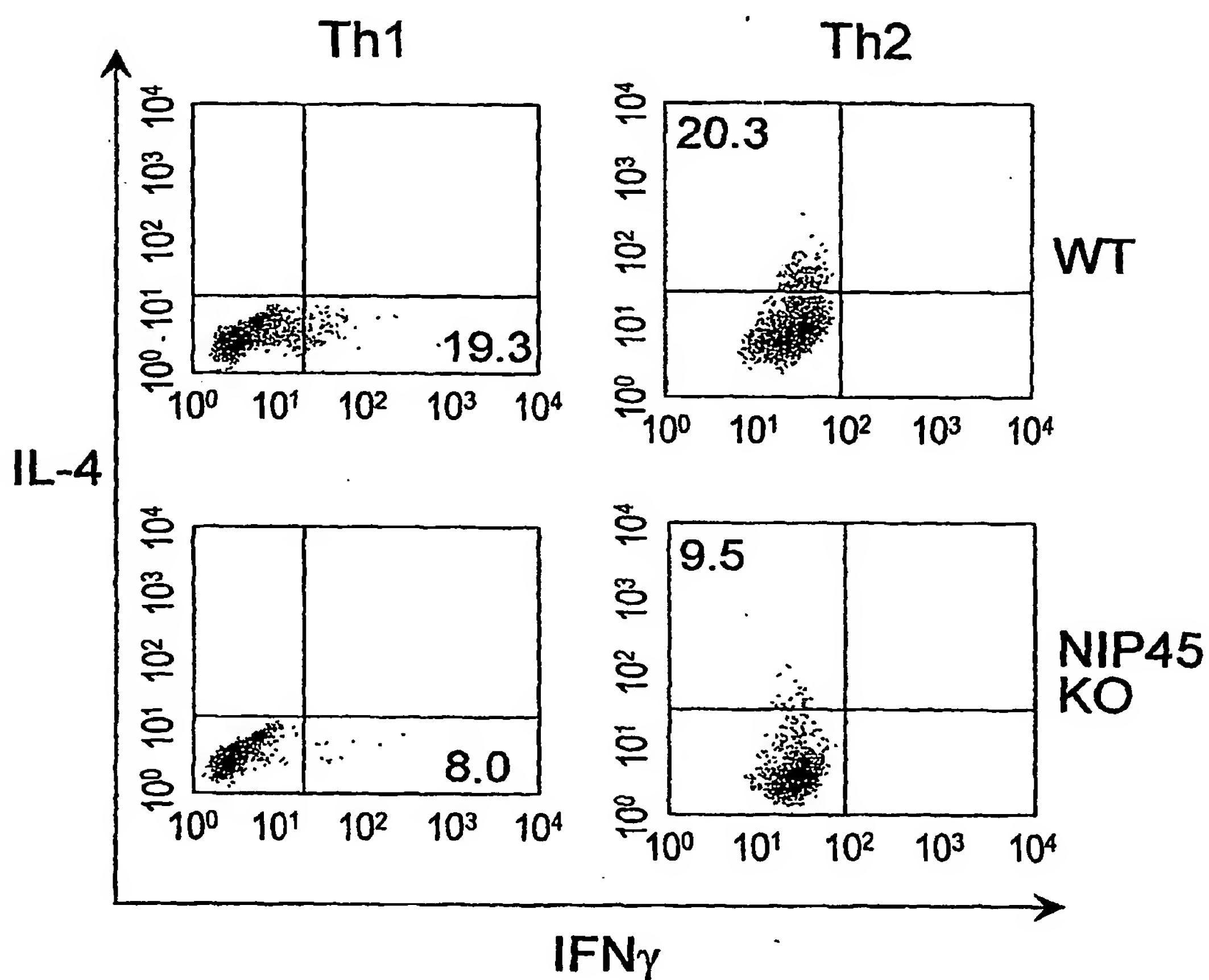


Fig. 17B

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*Fig. 18A*

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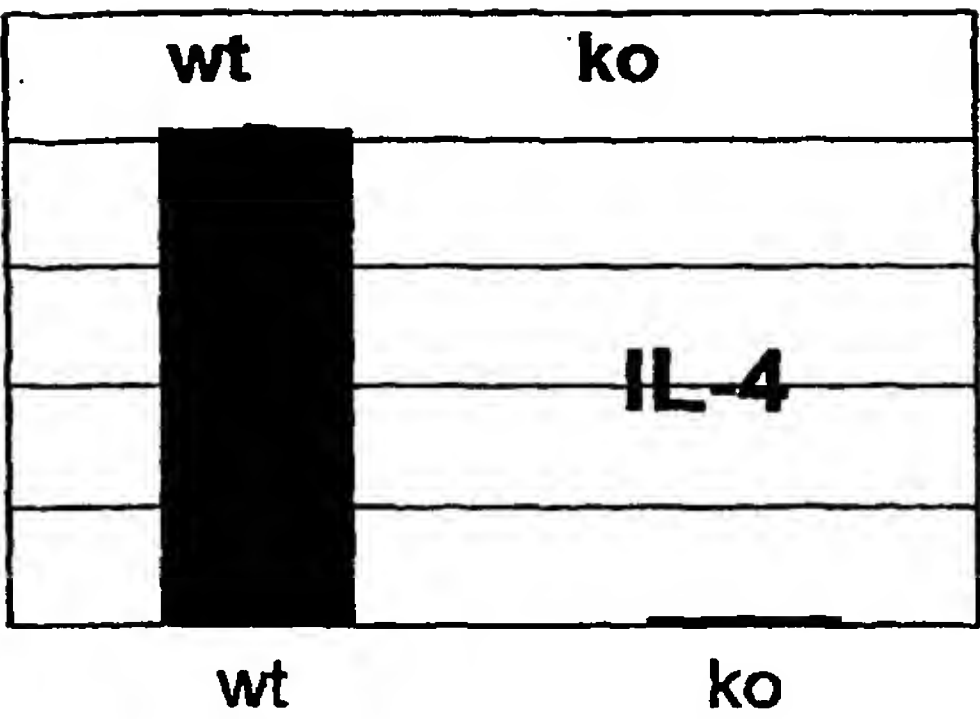


Fig. 18A

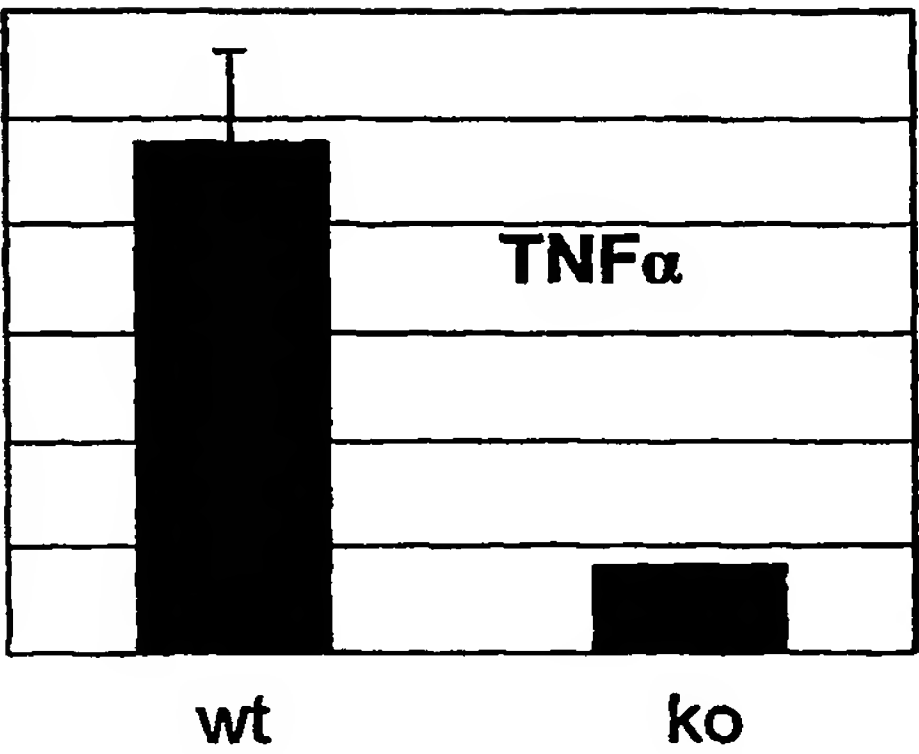


Fig. 18B

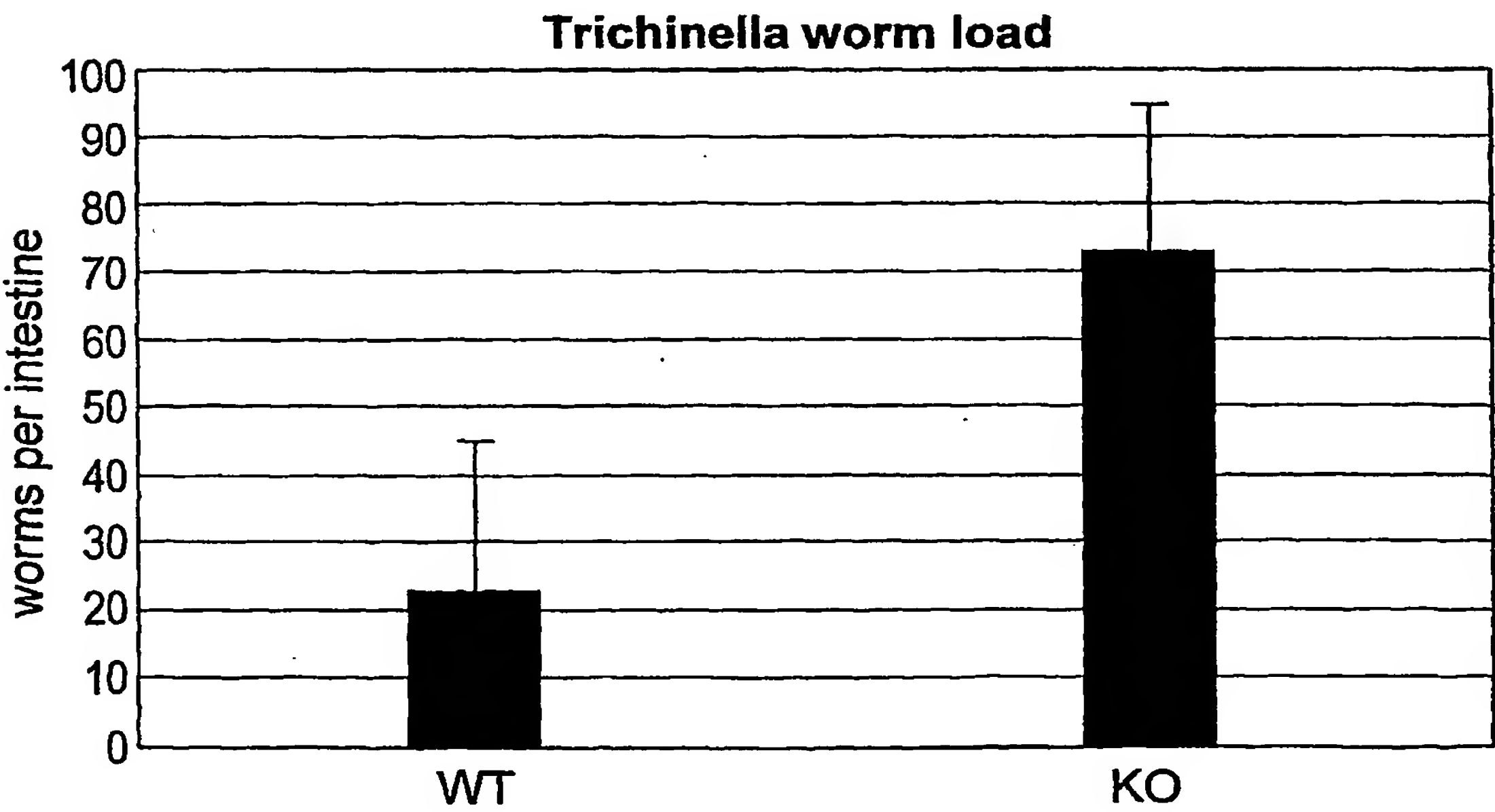


Fig. 18C